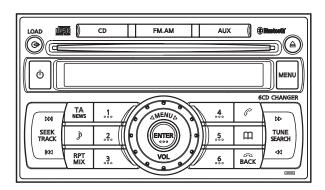


Clarion Co., Ltd.

7-2, Shintoshin, Chuo-ku, Saitama-shi, Saitama 330-0081 Japan Service Dept.: 7-2, Shintoshin, Chuo-ku, Saitama-shi, Saitama 330-0081 Japan Tel: +81-48-601-3705 FAX: +81-48-601-3804 Published by Service Dept. 298-6531-00 Nov.2007 Printed in Japan

Service Manual



NISSAN Automobile Genuine 6CD LW/MW/FM/RDS Bluetooth Combination

Model PN-3000P-A

(Genuine No.28185 9U20A)(ID No. CY03E) (ES color : Black)

Model PP-3000M-A

(Genuine No.28184 BG00B)(ID No. CS01E) (ES color : Brown)

Model PP-3000M-B

(Genuine No.28184 BG00A)(ID No. CS00E) (ES color : Black)

NOTES

- * As for this model, the tuner of the DSP type is used. When you exchange it due to the tuner pack(BL101;880-2091M) trouble, it is necessary to adjust for S-meter etc. Special JIG is necessary for an accurate adjustment. The procedure document for the exclusive use jig is appended to it.
- * This system controller IC M30876FJBGP(IC402) of Main PWB does not have program. Please use special JIG at the time of IC ex-change to write the memory.
- * This DSP IC SAF7730HV/N317(IC301) of Main PWB is exposed die soldering pad type. It cannot remove in an ordinary soldering iron.
 - Please use special removal JIG at the time of IC exchange
- * The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of suchmarks by CLARION CO.,LTD. is under license.
- * We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
- * Specifications and design are subject to change without notice for further improvement.

SPECIFICATIONS

Radio section

Tuning system: PLL Frequeency synthesizer sys-

em

Receive range: LW 153kHz to 279kHz

MW 531kHz to 1,602kHz FM 87.5MHz to 108.0MHz

Intermediate frequency:

LW/MW/FM

10.7MHz

Quieting sensitivity: LW Less than 45dBu

(at 20dB S/N)

MW Less than 32dBu (at 20dB S/N)

FM Less than 10dBu

(at 30dB S/N) 22+5/-7dB(1kHz)

Separation: FM 22+5/-7dB(1kHz)
S/N ratio: LW More than 40dB
MW More than 40dB

FM More than 50dB

Auto tuning stop sensitivity:

LW/MW

40+6/-6dBu 22+6/-6dBu

CD section

Disc: 12cm disc

Separation: More than 50dB
(IkHz,20kHz L.P.F)

S/N ratio: More than 74dB(JIS-A)

Distortion: Less than 0.2%(20kHz L.P.F.)

General

Load impedance: 4ohm/CH Power output: 40W x4

Power supply voltage: DC13.2V(10.8 to 15.6V)

Negative ground

Back-up consumption: Less than 0.3mA

Dimensions(mm): 178(W) x 100(H) x 164(D)

Weight: 2.3kg

To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions in soldering

Please do not spread liquid flux in soldering.

Please do not wash the soldering point after soldering.

6. Cautions in soldering for chip capacitors

Please solder the chip capacitors after pre-heating for replacement because they are very weak to heat.

Please do not heat the chip capacitors with a soldering iron directly.

7. Cautions in handling for chip parts.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc).

Please make an operation test after replacement.

8. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly(more than three times)to the same patterns. Also take care not to apply the tip with force.

Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit. 10. Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

11. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

11-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

11-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it. Its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

11-3. Cleaning the lens

Dust on the optical lens affects performance.

To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

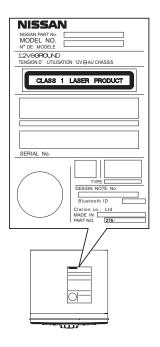
COMPONENT

PN-3000P-A, PP-3000M-A, PP-3000M-B

Main unit
 Radio pass card
 1

CAUTION

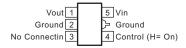
This appliance contains a laser system and is classified as a "CLASS 1 LASER PRODUCT". To use this model properly, read this Owner's Manual carefully and keep this manual for your future reference. In case of any trouble with this player, please contact your nearest "AUTHORIZED service station". To prevent direct exposure to the laser beam, do not to open the enclosure.



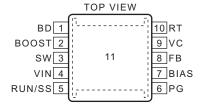
EXPLANATION OF IC

051-3516-90 S-1132B33-U5T1G

Positive Voltage Regurator 3.3V



051-3517-90 impossible of exchange (LT3481EMSE#TRPBF) Step-Down Switching Regulator



Terminal Description

BD (Pin 1):

This pin connects to the anode of the boost Schottky diode.

BOOST (Pin 2):

This pin is used to provide a drive voltage, higher than the input voltage, to the internal bipolar NPN power switch.

SW (Pin 3):

The SW pin is the output of the internal power switch. Connect this pin to the inductor, catch diode and boost capacitor.

VIN (Pin 4):

The VIN pin supplies current to the LT3481's internal regulator and to the internal power switch. This pin must be locally bypassed.

RUN/SS (Pin 5):

The RUN/SS pin is used to put the LT3481 in shutdown mode. Tie to ground to shut down the LT3481. Tie to 2.3V or more for normal operation. If the shutdown feature is not used, tie this pin to the VIN pin.

PG (Pin 6)

The PG pin is the open collector output of an internal comparator. PG remains low until the FB pin is within 10% of the final regulation voltage. PG output is valid when VIN is above 3.5V and RUN/SS is high.

BIAS (Pin 7):

The BIAS pin supplies the current to the LT3481's internal regulator. Tie this pin to the lowest available voltage source above 3V (typically VOUT). This architecture increases efficiency especially when the input voltage is much higher than the output.

FB (Pin 8):

The LT3481 regulates the FB pin to 1.265V. Connect the feedback resistor divider tap to this pin.

VC (Pin 9):

The VC pin is the output of the internal error amplifier. The voltage on this pin controls the peak switch current. Tie an RC network from this pin to ground to compensate the control loop.

RT (Pin 10):

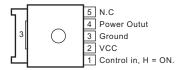
Oscillator Resistor Input. Connecting a resistor to ground from this pin sets the switching frequency.

Exposed Pad (Pin 11):

Ground. The Exposed Pad must be soldered to PCB.

051-3518-90 NJM2846DL3-33-TE1

Positive Voltage Regurator 3.3V



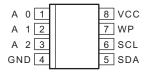
051-3519-90 NJU7771F05-TE2

Positive Voltage Regurator 5.0V



051-9425-80 S-24CS64A0I-J8T1G

EEP-ROM



Terminal Description

8: VCC

 pin
 1: A
 0
 :IN: Address input.

 pin
 2: A
 1
 :IN: Address input.

 pin
 3: A
 2
 :IN: Address input.

 pin
 4: GND
 : - : Ground.

pin 5: S DA :I/O: Serial data input/output.
pin 6: S CK :IN: Serial clock pulse input.
pin 7: Write Protect :IN: Write protect signal input.
H = protect ON.

052-0320-00 M30876FJBGP

System Contoller

[Note] The program is not written in this IC. Therefore, you need to write a program in this IC with the part exchange.

: - : Positive voltage supply.

Terminal Description for PN-3000

pin 1: NU :IN: Not in use.
pin 2: Speed Pulse :IN: Speed pulse input.

pin 3: IMMOBI TX : O : Serial data output for IMMOBI.

pin 4: IMMOBI RX :IN: Serial data input for IMMOBI.

pin 5: BU DET :IN: Backup detection signal input.

pin 6: GND : - : Ground.

pin 7: CN VSS :IN: Connect to VSS via a resistor.
pin 8: ILL ON :IN: Illumination ON signal input.
pin 9: SYS ON :O: System ON signal output.
pin 10: RESET :IN: Reset signal input.

pin 10: RESET : IN: Reset signal input.

pin 11: X out : O : Crystal connection.

pin 12: VSS : - : Negative voltage supply.

pin 13: X in :IN: Crystal connection.

pin 14: VDD : - : Positive voltage supply.

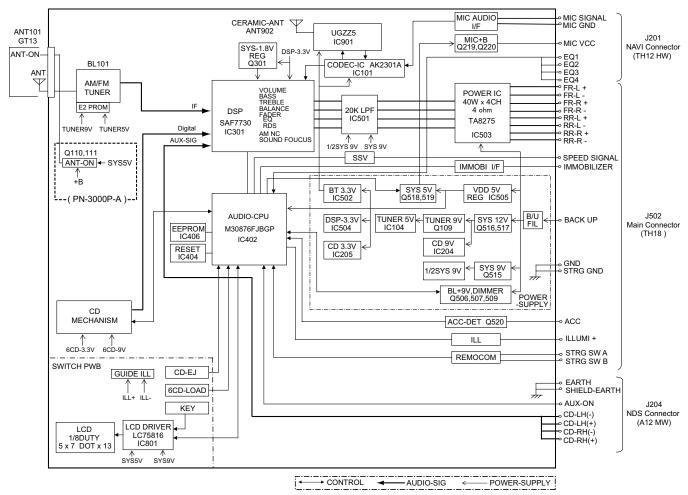
pin 15: NMI :IN: Nonmaskable interrupt. Connect to VDD via a resistor.

pin 16: ACC IN : IN: ACC ON flag input. pin 72: RDS CL 1 :IN: RDS 1 serial clock output. pin 17: PLL DO : O : PLL serial data output. pin 73: RDS DA 1 :IN: RDS 1 serial data input. pin 18: NU pin 74: GIX SYS ACC : O: 6CD-mechanism system ACC control. : - : Not in use. pin 19: B/T CTS : IN: BT module UART flow control. pin 75: P IC MUTE : O : Muting-command output for the audio powpin 20: B/T RX :IN: BT module UART data input. pin 76: MH MUTE : O: Muting-command output for RDS and pin 21: TIME BASE :IN: Time base pulse input. DSP pin 22: B/T TX : O: BT module UART data output. pin 77: M AGC BUFF : IN: DSP Keyed AGC detection. : O : PLL chip enable signal output. pin 23: PLL CE pin 78: DSP RESET : O : Reset signal output to the DSP IC. pin 24: DIMMER : O : Dimmer output. pin 79: MT S METER :IN: Input of internal A/D converter to monitor pin 25: PLL CK : O : PLL clock pulse output. the radio field strength for the Main-tunpin 26: NU : - : Not in use. er. pin 27: DSP SCL : O : Clock pulse output to the DSP IC. pin 80: MT SAMPLE : IN: Main-tuner sample input. pin 81: MT HOLD : IN: AF-hold-signal input from the Main-tuner. pin 28: DSP SDA :I/O: Serial data input/output for the digital sig-And S-hold signal input from the DSP. nal processor. pin 29: NDS TX : O : Serial data output for NDS. pin 82: EQ 1 : IN: The equalizer setting input. pin 83: EQ 2 : IN: The equalizer setting input. pin 30: NDS RX : IN: Serial data input for NDS. pin 84: EQ 3 : IN: The equalizer setting input. pin 31: NDS REQ 1 :IN: NDS request signal input. pin 85: EQ 4 : IN: The equalizer setting input. pin 32: 6CD SLOT : O : Shutter light control signal output. pin 86: NU : IN: Not in use. pin 33: 6CD SDA :I/O: Serial data input/output. pin 87: CD EJECT :IN:CD eject signal input. pin 34:6CD SCL : O : Serial clock output. pin 88: LOAD SW : IN: LOAD switch signal input. pin 35: NU : - : Not in use. pin 89: NU : - : Not in use. pin 36: NU : - : Not in use. pin 90: NU : - : Not in use. pin 37:6CD RESET : O : Reset pulse output. pin 91: INI KEY : IN: Initializing command input. pin 38: NU : - : Not in use. pin 39: 6-CD REQ pin 92: REMO A : IN: Steering wheel remote controller signal :IN: Request signal input for the 6CD-Changpin 93: REMO B :IN: Steering wheel remote controller signal pin 40: NU : - : Not in use. input. pin 41: NU : - : Not in use pin 94: A GND : - : Analog ground. pin 42: NU :IN: Not in use. pin 95: NU : - : Not in use. pin 43: NU :IN: Not in use. pin 96: VREFI : IN: Reference voltage input. pin 44: NU :IN: Not in use. pin 97: A VCC : - : Positive voltage supply for the internal pin 45: NU :IN: Not in use analog section pin 46: NU : - : Not in use. pin 98: MT SCL : IN: Main-tuner control clock pulse. pin 47: NU : - : Not in use. pin 99: MT SDA :I/O: Serial data input/output for the Main-tunpin 48: CD ON : O : CD ON signal output. pin 49: NU : - : Not in use. pin100: DSP PAUSE :IN: DSP automatic mute control. L = mute on. pin 50: Power IC Stndb: O: The standby signal output to the power IC. pin 51: LCD DO : O : Serial data output to the LCD controller. pin 52: LCD CK : O : Clock pulse output to the LCD driver. pin 53: LCD DI :IN: Serial data input from the LCD driver. pin 54: LCD CE : O : Chip enable signal output to the LCD driver. pin 55: LCD RST : O : Reset pulse output to the LCD driver. pin 56: VOL 3 :IN: Volume control pulse input from the rotary encoder. pin 57: VOL 2 :IN: Volume control pulse input from the rotary encoder. pin 58: VOL 1 :IN: Volume control pulse input from the rotary encoder. pin 59: FAN ON : O: The fan on signal output. pin 60: VDD : - : Positive voltage supply. pin 61: POWER ON : IN: Power ON signal input. pin 62: GND pin 63: B/T TEST : O : BT module test. pin 64: AUX ON :IN: AUX ON signal input. pin 65: DIAG INPUT : IN: Diagnosis signal input from the audio power IC. pin 66: B/T RTS : O: BT module UART flow control. AUX connection detection. pin 67: B/T TEST : O : BT module test. pin 68: B/T BOOTE : O: BT module rewrite. pin 69: B/T RESET P : O : BT module reset. pin 70: NU : - : Not in use.

PN-3000P PP-3000M :IN: Not in use.

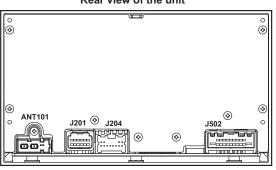
pin 71: NU

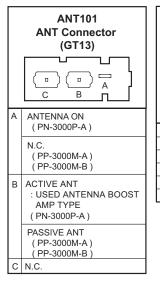
BLOCK DIAGRAM

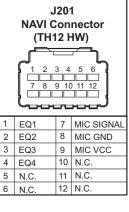


CONNECTOR LAYOUT

Rear view of the unit

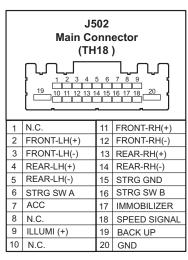




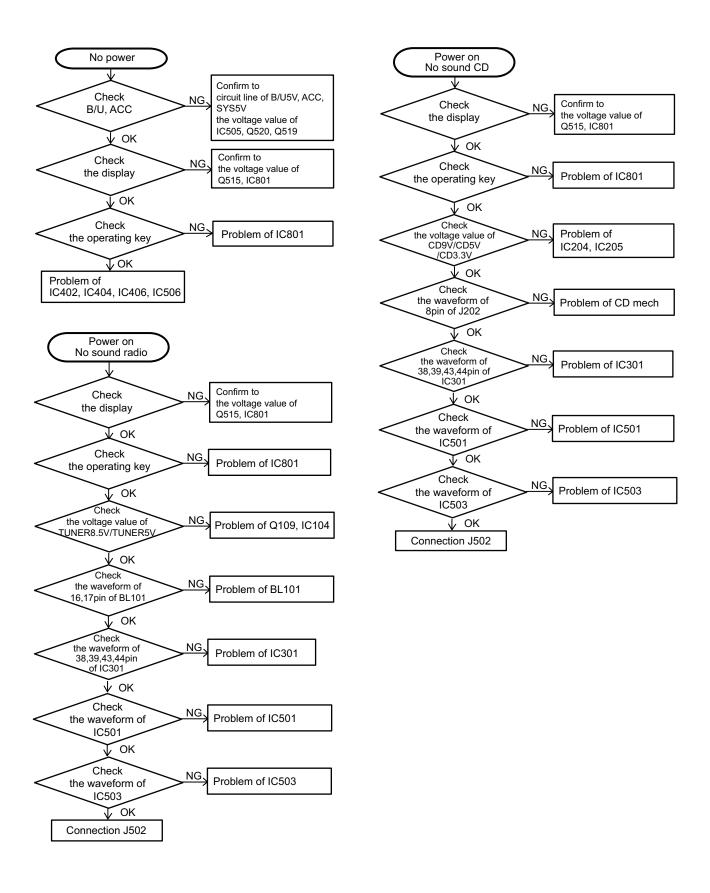


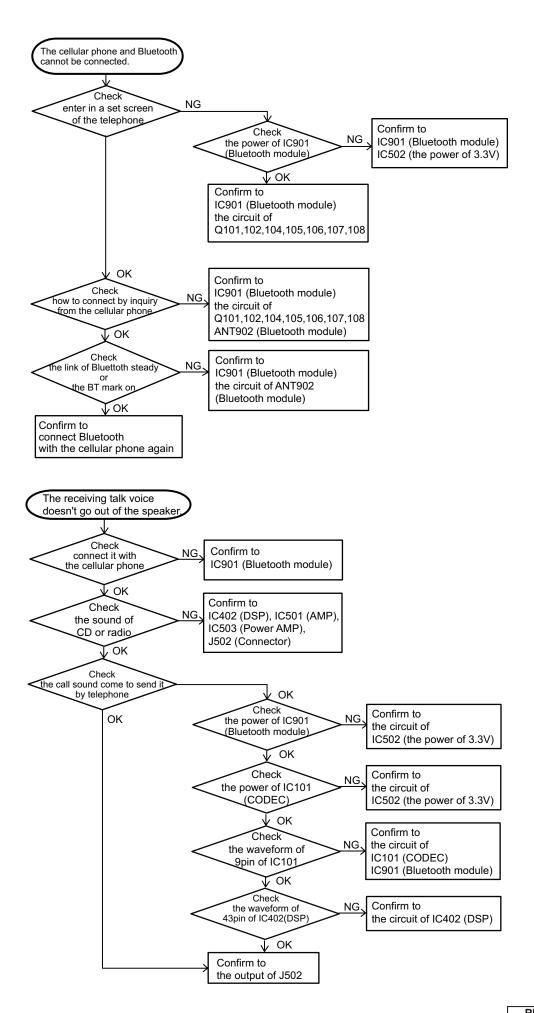


J204

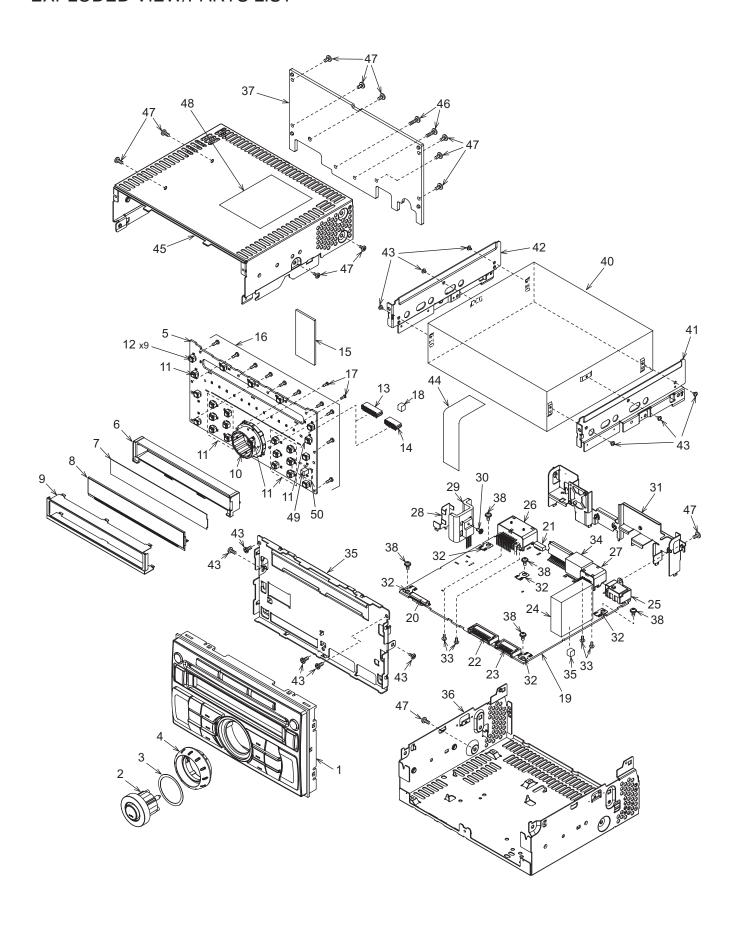


TROUBLESHOOTING





EXPLODED VIEW/PARTS LIST



Note) Some parts depend on each model. The model name is specified in the description.

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	940-8206-20	ES-ASSY (PN-3000P-A)	1	26	074-4009-20	OUTLET SOCKET	1
	940-8206-21 940-8210-20	ES-ASSY (PP-3000M-B) ES-ASSY (PP-3000M-A)		27	074-1302-12	OUTLET SOCKET	1
2	947-0591-00	KNOB ASSY	1	28	331-3880-00	TR HOLDER	1
	947-0591-20	(PN-3000P-A)(PP-3000M-B) KNOB ASSY (PP-3000M-A)		29	313-1967-00	HEAT SINK	1
3	347-7959-00	SHADE	1	30	716-1646-50	IT SCREW (M2.6 x 8)	1
4	380-5655-20	KNOB	1	31	307-0720-00	REAR PLATE	1
5		SWITCH PWB	1	32	073-0762-90	TERMINAL	5
6	335-7693-00	LCD HOLDER	1	33	778-3006-00	SPECIAL T-SCREW (3 x 6)	4
7	335-7801-00	LCD LEFLECTOR	1	34	074-1013-00	OUTLET SOCKET	1
8	379-1392-50	INDICATOR (LCD)	1	35	345-5805-01	GASKET	1
9	331-4166-00	LCD COVER	1	36	311-1914-00	LOWER CASE	1
10	016-7004-00	ROTARY SWITCH	1	37	313-2030-00	HEAT SINK	1
11	013-6201-52	TACT SWITCH	15	38	716-0878-50	SCREW (M2.6 x 5)	5
12	013-6202-52	TACT SWITCH	9	39	309-0822-00	ES PLATE (6CD)	1
13	074-3013-72	OUTLET SOCKET (22P)	1	40	929-0390-81	CD MECH MODULE	1
14	074-3013-66	OUTLET SOCKET (16P)	1	41	331-4092-10	CD MECH BRKT (RH)	1
15	345-8090-00	CUSHION RUBBER	1	42	331-4091-10	CD MECH BRKT (LH)	1
16	716-0778-52	WAVE SCREW (2 x 6)	10	43	716-3552-00	SCREW (M2.3 x 2.5)	6
17	716-0872-51	PAD SCREW (M1.7 x 5)	2	44	816-4024-50	FLAT WIRE	1
18	345-5805-01	GASKET	1	45	310-1823-10	UPPER CASE	1
19		MAIN PWB	1	46	735-2614-1B	MACHINE SCREW (M2.6 x 14)	2
20	074-1237-69	OUTLET SOCKET (19P)	1	47	714-2606-8B	MACHINE SCREW (M2.6 x 6)	17
21	076-0478-59	PLUG (9P)	1	48	276-0034-55	SET PLATE (PP-3000M-A)	1
22	076-3011-72	PLUG (22P)	1		276-0034-56 276-0034-58	SET PLATE (PP-3000M-B) SET PLATE (PN-3000P-A)	
23	076-3011-66	PLUG (16P)	1	49	060-8062-50	CERAMIC-ANT	1
24	880-2091M	TUNER PACK	1	50	060-8079-90	BLUETOOTH MODULE	1
25	092-2210-00	ANT RECEPT	1		<u> </u>		

ELECTRICAL PARTS LIST

Switch PWB(B1) section

	VVD(D1) 3							
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
		CERAMIC-ANT	D835	001-7093-91	RFY1112H-16-TR	R802		1/10W 33k ohm
	168-1042-78				YEL	R803		1/10W 1k ohm
	168-1042-78		D836	001-7093-91	RFY1112H-16-TR	R804		1/4W 3.3k ohm
	168-4732-78		D027	004 7000 04	YEL RFY1112H-16-TR	R805		1/4W 3.3k ohm
	168-4732-78 168-4732-78		D837	001-7093-91	YEL	R806 R807		1/4W 3.3k ohm 1/4W 3.3k ohm
	166-2211-50		D838	001-7093-91	RFY1112H-16-TR	R808		1/4W 3.3k ohm
	168-1042-78			001 7000 01	YEL	R809		1/4W 3.9k ohm
	166-1011-50		D839	001-7093-91	RFY1112H-16-TR	R810		1/4W 2.4k ohm
C903	168-1042-78	16V 0.1uF			YEL	R811		1/4W 4.7k ohm
	166-1011-50		D846	001-7093-91	RFY1112H-16-TR	R812		1/4W 4.7k ohm
	166-1011-50				YEL	R813		1/4W 4.7k ohm
	042-0423-97		D847	001-7093-91	RFY1112H-16-TR	R814		1/4W 4.7k ohm
	168-1042-78 168-1042-78		D040	004 7002 04	YEL RFY1112H-16-TR	R815 R816		1/4W 2.2k ohm 1/4W 2.2k ohm
	178-3312-78		D848	001-7093-91	YEL YEL	R817		1/10W 1.5k ohm
		1/16W 1k ohm x4	D849	001-7093-91	RFY1112H-16-TR	R819		1/4W 3.3k ohm
	001-0529-32			001 7000 01	YEL	R822		1/10W 2.4k ohm
	001-0529-32		D850	001-7093-91	RFY1112H-16-TR	R823		1/4W 4.7k ohm
D803	001-0529-32	MA8056-M			YEL	R824	119-2421-15	1/10W 2.4k ohm
D804	001-0529-32	MA8056-M	D851	001-7093-91	RFY1112H-16-TR	R825	116-4721-15	1/4W 4.7k ohm
	001-0529-32				YEL	R826		1/10W 2.4k ohm
D806	001-7093-91	RFY1112H-16-TR	D852	001-7093-91	RFY1112H-16-TR	R827		1/4W 3.9k ohm
D007	004 7000 04	YEL	D050	004 7000 04	YEL	R828		1/10W 2.4k ohm
D807	001-7093-91	RFY1112H-16-TR YEL	D853	001-7093-91	RFY1112H-16-TR YEL	R829 R830		1/4W 2.4k ohm 1/10W 2.4k ohm
D808	001-7093-91	RFY1112H-16-TR	D855	001-7003-01	RFY1112H-16-TR	R831		1/4W 4.7k ohm
D000	001-7093-91	YEL	10000	001-7093-91	YEL	R832		1/10W 2.4k ohm
D809	001-7093-91	RFY1112H-16-TR	D856	001-7093-91	RFY1112H-16-TR	R833		1/10W 1.5k ohm
		YEL			YEL	R905		1/10W 270 ohm
D810	001-7093-91	RFY1112H-16-TR	D857	001-7093-91	RFY1112H-16-TR	R909		1/10W 10k ohm
		YEL			YEL	R914		1/10W 56k ohm
D811	001-7093-91	RFY1112H-16-TR	D858	001-7093-91	RFY1112H-16-TR	R916		1/10W 1.8k ohm
D040	2000 04	YEL	D050	2000 04	YEL	R917		1/10W 270 ohm
D812	001-7093-91	RFY1112H-16-TR	D859	001-7093-91	RFY1112H-16-TR	R918		1/10W 100 ohm
D813	001 7003 01	YEL RFY1112H-16-TR	D860	001 7003 01	YEL RFY1112H-16-TR	R919 S801		1/10W 100 ohm ROTARY SWITCH
D013	001-7093-91	YEL	10000	001-7093-91	YEL			SKPMAP010
D814	001-7093-91	RFY1112H-16-TR	D861	001-7093-91	RFY1112H-16-TR			SKPMBJE010
		YEL			YEL			SKPMBJE010
D815	001-7093-91	RFY1112H-16-TR	D862	001-7093-91	RFY1112H-16-TR		013-6202-52	SKPMBJE010
		YEL			YEL			SKPMAP010
D816	001-7093-91	RFY1112H-16-TR	D864	001-7093-91	RFY1112H-16-TR			SKPMAP010
		YEL			YEL			SKPMBJE010
D817	001-7093-91	RFY1112H-16-TR	D865	001-7093-91	RFY1112H-16-TR YEL			SKPMBJE010
D818	001-7003-01	YEL RFY1112H-16-TR	D866	001-7003-01	RFY1112H-16-TR	S812 S813		SKPMBJE010 SKPMAP010
D010	001-7093-91	YEL	10000	001-7093-91	YEL			SKPMAP010
D819	001-7093-91	RFY1112H-16-TR	D867	001-7093-91	RFY1112H-16-TR	S815		SKPMBJE010
		YEL			YEL	S816		SKPMBJE010
D820	001-7093-91	RFY1112H-16-TR	D869	001-7093-91	RFY1112H-16-TR	S818	013-6201-52	SKPMAP010
		YEL	_		YEL	S819		SKPMAP010
D821	001-7093-91	RFY1112H-16-TR	D870	001-7093-91	RFY1112H-16-TR			SKPMAP010
Dooo	004 7000 01	YEL	10004	054 0075 00	YEL			SKPMBJE010
D822	001-7093-91	RFY1112H-16-TR	IC801		LC75816W-8722-E	S822		SKPMAP010 SKPMAP010
D823	001-7002 04	YEL RFY1112H-16-TR	IC901 J801	060-8079-90	UGZZ5-601D	1		SKPMAP010 SKPMAP010
D023	001-7093-91	YEL YEL	J901	074-3013-72		S824 S825		SKPMAP010 SKPMAP010
D824	001-7093-91	RFY1112H-16-TR			INDICATOR (LCD)			SKPMAP010
5024	55. 7555-51	YEL			600 ohm/100MHz			SKPMAP010
D830	001-7093-91	RFY1112H-16-TR	L902		600 ohm/100MHz			SKPMAP010
		YEL	L903		600 ohm/100MHz	TM901	073-0778-90	
D831	001-7093-91	RFY1112H-16-TR	L904	010-3104-54	600 ohm/100MHz	TM902	073-0778-90	
		YEL	L906	010-3104-54	600 ohm/100MHz	TM903	073-0778-90	
D832	001-7093-91	RFY1112H-16-TR	L907		600 ohm/100MHz	TM904	073-0778-90	
Door	004 7005 5	YEL	1		600 ohm/100MHz	PWB	039-2925-01	PWB(WITHOUT
D833	001-7093-91	RFY1112H-16-TR	L910		600 ohm/100MHz			COMPONENT)
D834	001-7003-01	YEL RFY1112H-16-TR	L911 L912		600 ohm/100MHz 600 ohm/100MHz			
5004	501-7093-91	YEL YEL	R801		1/10W 0 ohm JW			
			1,001	1.10 0000-00	., 1000 0 011111 000			

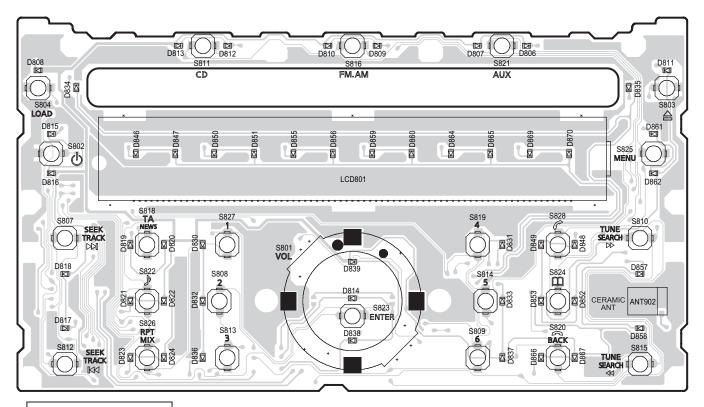
.v.a	(DZ) 36	01.011	INC	ite) Some parti	s depend on each model.	rne modei	name is speciii	ea in the description.
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
ANT101	092-2210-00	ANTENNA RECEPT	C318	168-1042-78	16V 0.1uF	C535	168-5632-78	16V 0.056uF
BL101	880-2091M	FM/AM TUNER	C319	168-5622-55	5600pF K	C536	168-5632-78	16V 0.056uF
C104	168-2222-55	2200pF K	C320	168-5622-55	5600pF K	C537	178-1052-78	1uF
		(PN-3000P)	C323	168-1022-55	1000pF K	C540	163-1063-35	16V 10uF
C108	119-0000-05	1/10W 0 ohm JW	C324	163-2273-05	4V 220uF	C541	168-1522-55	1500pF K
C109	166-2201-50	22pF CH	C325	168-2222-55	2200pF K	C546	168-1042-78	16V 0.1uF
C110	168-1042-78			166-4711-50	· '	C547	178-1052-78	
	178-3342-78			163-2263-35	16V 22uF	C549	163-2273-25	
C112	163-4763-15		C328	168-1022-55	, ·	C550	178-4742-78	
	178-1052-78	I		166-1007-50	'	C551	168-1042-38	
C114	178-1052-78			163-1063-35		C552	163-4763-35	
C115		1/10W 0 ohm JW	C331	166-1011-50	· '	C553	163-4763-35	
C116	168-1222-55			168-1042-78	l I	C554	189-3383-31	
C117 C118	178-1052-78 168-4732-78		C334 C335	163-4763-15		C556 C557	172-1041-15 163-4763-35	
C118	168-1022-55	I		178-1052-78 168-3332-78	l I	C557	168-6822-55	
C120	168-4722-55			168-1022-55	l I	C560	168-6822-55	
C120	168-4722-55		C339	168-1022-55	· '	C561	168-6822-55	
C122	163-1073-35			166-1007-50	· '	C562	168-6822-55	l '
C123	168-2222-55	I		168-4712-55	l '	C563	168-6822-55	
C123	168-1022-55		C342	168-1042-78	· ·	C564	166-2201-50	l '
C125	168-2232-55			168-1022-55		C565	168-6822-55	'
C126	168-2232-55			168-3322-55	· '	C566	168-6822-55	l '
C127	168-1022-55		C346	168-3322-55	· '	C567	043-0604-90	· '
C128	168-1022-55			168-3322-55	, ·	C568	168-6822-55	
C129	178-1052-78			168-3322-55	, ·	C569	168-6822-55	· '
C130	168-1022-55	I	C350	042-0643-58	6.3V 330uF	C571	043-0566-90	
C131	163-1073-35	16V 100uF	C351	168-4722-55	4700pF K	C572	178-1052-78	1uF
C132	166-2201-50	22pF CH	C352	168-2222-55	2200pF K	C573	168-1042-78	16V 0.1uF
C133	166-2201-50	22pF CH	C353	168-2222-55	2200pF K	C574	163-1063-35	16V 10uF
C134	166-2201-50	22pF CH	C354	168-2222-55	2200pF K	C575	168-2232-55	0.022uF K
C135	166-2201-50	22pF CH	C355	168-2222-55	2200pF K	C576	163-1073-35	16V 100uF
C136	178-1052-78	1uF	C356	163-1073-15	6.3V 100uF	C577	168-2212-55	220pF K
C137	178-1052-78	1uF		168-1022-55	1000pF K	C578	119-0000-05	1/10W 0 ohm JW
C138	178-3342-78	0.33uF		166-4711-50	· '	CCT401	050-0145-52	1/16W 1k ohm x4
C140	163-1063-35	I		043-0554-90		CCT402		1/16W 1k ohm x4
C141	163-1063-35			168-1042-78				1/16W 1k ohm x4
		(PN-3000P)		168-1042-78		CCT404		1/16W 1k ohm x4
C142	168-1042-78			166-5096-50	, ·	D106	001-0580-90	
	166-6801-50	'		166-5096-50	, ·	D108	001-0529-48	
C144 C201	043-0548-50 043-0548-50	I	C407 C408	168-1042-78		D109	001-0580-90	
	043-0548-50	I		163-4763-15 168-1042-78		D208	001-0580-90	(PN-3000P)
	043-0548-50	I		168-1042-76		D208	001-0560-90	
	043-0548-50		C412	163-1032-35		D210 D211	001-0329-72	
C220	163-2273-25	I		168-1042-78		10211	001-9210-30	M1608C270MTAAD
	042-0643-58			168-1042-78	l I	D212	001-9210-50	
C228	163-2273-25		C502	168-1042-78	l I		001 0210-00	M1608C270MTAAD
C229	163-1063-35	I		168-1042-78		D213	001-9210-50	
C230	168-1042-78			168-1042-78		1	20.02.000	M1608C270MTAAD
C232	163-1063-35			166-5611-50	l I	D214	001-9210-50	
C233	168-1042-78	I		166-5611-50			= ===================================	M1608C270MTAAD
C236	178-1052-78			166-5611-50	· ·	D215	001-2412-90	RR264M-400
	178-3342-78			166-5611-50		D401	001-0580-90	1SS352
C241	168-1022-55			166-2201-50		D505	001-0529-48	MA8091-H
C242	168-1022-55			166-2201-50	22pF CH	D506	001-2640-90	
C301	163-4753-65			043-0554-90		D508	001-0529-48	
C302	168-1042-78			178-3342-78	l I	D510	001-2015-00	
C303	166-1811-50	'		166-2201-50	l '	D511	001-0580-90	
C304	166-1007-50	· ·		166-2201-50	, · .	D512	001-0529-48	
C306	168-1042-78			166-5611-50		D514	001-0580-90	
C307	168-1042-78			166-5611-50		D515	001-0529-34	
C308	166-8097-50	ı ·		166-5611-50		D516	001-0580-90	
C309	166-8097-50			166-5611-50	, · .	D567	001-0580-90	
C310	168-1022-55			168-1042-78	l I	D568	001-0580-90	
C311	163-4753-65	I		178-3342-78		D569	001-4301-68	
C312	168-1042-78		C523	163-1063-35	l I	D570	001-4301-68	
C313	163-4753-65			163-1073-35		D571	001-4301-68	
C314	168-1042-78		C530	163-1073-35	l I	IC101		AK2301A-E1
	168-1022-55			168-1042-78	l I	IC103	051-3034-90	
C316	168-1022-55				16V 0.056uF	IC104	051-3519-90	NJU7771F05-TE2
C317	166-1011-50	TOUPE CH	C534	100-5032-78	16V 0.056uF			

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
IC107	051-7255-08	SN74AHC1G66	Q403	191-0709-00	2SB709A Q,R,S	R208	119-3011-15	1/10W 300 ohm
		HDCKR	Q404	192-2712-00	2SC2712	R210	119-1021-15	1/10W 1k ohm
IC204	051-3340-00	LD1085P	Q405	125-2027-91	DTC114EUA	R212		1/10W 33k ohm
IC205		S-1132B33-U5T1G	Q406	125-0006-90		R215		1/10W 47k ohm
IC301		SAF7730HV/N317			DTC114EUA	R220		1/10W 100k ohm
IC402		M30876FJBGP			2SB1197K Q,R	R224		1/10W 4.7k ohm
IC404 IC406		S-80927CNMC-G8X S-24CS64A0I-J8T1G	Q506 Q507		DTC114EUA 2SB1197K Q,R	R227 R229		1/10W 4.7k ohm 1/10W 4.7k ohm
IC501	051-3423-80				2SD2118F5 Q,R,S	R233		1/10W 4.7k ohm
IC502		NJM2846DL3-33-	Q512		DTC114EUA	R248		1/4W 22 ohm
		TE1			2SD1664 P,Q,R	R249		1/10W 330 ohm F
IC503	051-2042-00	TA8275H	Q516	192-4116-51	2SC4116 G,L	R250	116-1221-15	1/4W 1.2k ohm
IC504	051-3396-90	NJM2386ADL3-33-			2SB1204 R,S,T	R251		1/10W 2k ohm F
		TE1	Q518		DTC114EUA	R252		1/10W 10k ohm
IC505		LT3481EMSE			2SB1197K Q,R	R266		1/10W 0 ohm JW
IC506		#TRPBF BD4828G-TR		192-4116-00 192-4081-00		R301 R302		1/10W 10k ohm 1/10W 10k ohm
J201		TH12P-SOCKET	Q521		DTC114EUA	R303		1/10W 22 ohm
J202	074-1237-69			192-4081-00		R304		1/10W 18k ohm F
J204	074-1013-00				1/10W 3.3k ohm	R305		1/10W 18k ohm F
J502	074-4009-20	SOCKET(20P)	R106	119-0000-05	1/10W 0 ohm JW	R306	032-0140-80	1/10W 18k ohm F
L105	010-2003-04				1/10W 3.3k ohm	R307		1/10W 18k ohm F
L106		600 ohm/100MHz			1/10W 3.3k ohm	R314		1/10W 100 ohm
L107		600 ohm/100MHz			1/10W 0 ohm JW	R315		1/10W 10k ohm
L108 L301	010-2198-50	0.15uH 600 ohm/100MHz			1/10W 3.3k ohm 1/10W 270k ohm	R316 R317		1/10W 1k ohm 1/10W 10k ohm
L301		600 ohm/100MHz			1/10W 270K 0nm	R318		1/10W 10k onin
L302		600 ohm/100MHz			1/10W 39k ohm	R319		1/10W 10k ohm
L304		600 ohm/100MHz			1/10W 39k ohm	R320		1/10W 3.9k ohm
L305	010-3104-54	600 ohm/100MHz	R122	119-1031-15	1/10W 10k ohm	R321	119-1031-15	1/10W 10k ohm
L306	010-3104-54	600 ohm/100MHz	R123	119-1031-15	1/10W 10k ohm	R322	119-0000-05	1/10W 0 ohm JW
L307		600 ohm/100MHz			1/10W 39k ohm	R323		1/10W 10k ohm
L308		600 ohm/100MHz			1/10W 10k ohm	R324		1/10W 100k ohm
L309 L310		600 ohm/100MHz 600 ohm/100MHz			1/10W 100 ohm 1/10W 47k ohm	R325 R326		1/10W 100k ohm 1/10W 10 ohm
L310		600 ohm/100MHz			1/10W 47k offin	R327		1/10W 3.9k ohm
L312		600 ohm/100MHz			1/10W 47k ohm	R328		1/10W 0 ohm JW
L313	010-3104-54	600 ohm/100MHz			1/10W 8.2k ohm	R329		1/10W 1k ohm
L402	010-3406-54	2.2uH J			1/10W 100 ohm	R330	119-3921-15	1/10W 3.9k ohm
		600 ohm/100MHz			1/10W 100 ohm	R331		1/10W 0 ohm JW
L503	010-3414-90				1/10W 10k ohm	R332		1/10W 10k ohm F
	076-3011-66 076-0478-59				1/10W 22k ohm 1/4W 6.8 ohm	R334 R336		1/10W 10k ohm F 1/10W 10k ohm F
P401	076-3011-72				1/10W 10k ohm	R337		1/10W 10k ohm F
Q101	198-3018-00	l I			1/10W 100k ohm	R338		1/10W 10k ohm F
Q102	198-3018-00			119-1001-15	1/10W 10 ohm	R339		1/10W 10k ohm F
Q104	125-9017-92		R141	119-1031-15	1/10W 10k ohm	R340	032-0140-50	1/10W 10k ohm F
Q105		DTC114EUA			1/10W 22k ohm	R341		1/10W 10k ohm
Q106		DTC114EUA			1/10W 22k ohm	R342		1/10W 10k ohm
Q107		DTC114EUA DTC114EUA			1/10W 10 ohm 1/10W 10k ohm	R343		1/10W 10k ohm 1/10W 100 ohm
Q108 Q109	192-5886-00	l I	R146 R148	119-1031-15		R344 R345		1/10W 100 onm 1/10W 100 ohm
Q110	125-2027-90			. 10 1001-10	(PN-3000P)	R346		1/10W 0 ohm JW
	====: 30	(PN-3000P)	R149	116-1221-15	1/4W 1.2k ohm	R347		1/10W 0 ohm JW
Q111	190-2060-00	' '			(PN-3000P)	R348	119-0000-05	1/10W 0 ohm JW
<u> </u>	1 !	(PN-3000P)			1/4W 390 ohm	R349		1/10W 0 ohm JW
Q112	125-9017-92	l I	R151	119-1031-15	1/10W 10k ohm	R350		1/10W 10k ohm
Q201	192-4081-00		D450	110 1011 15	(PN-3000P)	R351		1/10W 0 ohm JW
Q204 Q206	125-9017-92 198-3018-00	l I			1/10W 100k ohm 1/10W 0 ohm JW	R352 R353		1/10W 47k ohm 1/10W 1k ohm
Q200 Q207	198-3018-00				1/10W 10k ohm	R354		1/10W 1k ohm
Q219	125-2027-90	l I			1/10W 10k ohm	R355		1/10W 1k ohm
Q220		2SB1197K Q,R			1/10W 10k ohm	R356		1/10W 1k ohm
Q222	125-9017-92				1/10W 10k ohm	R357		1/10W 47k ohm
Q301		Si5441BDC-TI-E3			1/10W 10k ohm	R358		1/10W 10 ohm
Q302		DTC114EUA			1/10W 10k ohm	R359		1/10W 47k ohm
Q303 Q304		DTC114EUA DTC114EUA			1/10W 0 ohm JW 1/10W 0 ohm JW	R360 R361		1/10W 47k ohm 1/10W 47k ohm
Q304 Q305		DTC114EUA			1/10W 15k ohm	R362		1/10W 47k onm
Q305 Q306		DTC114EUA			1/10W 13k ohm	R400		1/10W 47K 01111
Q307		DTC114EUA			1/10W 1k ohm	R401		1/10W 1k ohm
Q308		DTC114EUA	R176	119-3931-15	1/10W 39k ohm	R402		1/10W 1k ohm
Q401		DTC114EUA			1/10W 6.8k ohm	R403		1/10W 1k ohm
Q402		DTA114EUA	R207	1119-3011-15	1/10W 300 ohm	R404	1119-0000-05	1/10W 0 ohm JW

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R405	119-1021-15	1/10W 1k ohm	R464	119-2231-15	1/10W 22k ohm	R565	116-1221-15	1/4W 1.2k ohm
R406	119-1021-15	1/10W 1k ohm	R465	119-4731-15	1/10W 47k ohm	R566	119-1521-15	1/10W 1.5k ohm
R407	119-1021-15	1/10W 1k ohm	R468	119-1031-15	1/10W 10k ohm	R567	119-1031-15	1/10W 10k ohm
R408	119-4721-15	1/10W 4.7k ohm	R469	119-1031-15	1/10W 10k ohm	R568	116-1221-15	1/4W 1.2k ohm
R409	119-4721-15	1/10W 4.7k ohm	R470	119-4731-15	1/10W 47k ohm	R569	116-1221-15	1/4W 1.2k ohm
R410	119-4731-15	1/10W 47k ohm	R471	119-1241-15	1/10W 120k ohm	R570	119-1031-15	1/10W 10k ohm
R411	119-3311-15	1/10W 330 ohm	R472	119-3331-15	1/10W 33k ohm	R571	119-4721-15	1/10W 4.7k ohm
R412	119-3311-15	1/10W 330 ohm	R473	119-6801-15	1/10W 68 ohm	R572	119-1031-15	1/10W 10k ohm
R413	119-4731-15	1/10W 47k ohm	R474	119-2241-15	1/10W 220k ohm	R573	032-0148-50	1/10W 100k ohm
R416	119-4731-15	1/10W 47k ohm	R488	119-1031-15	1/10W 10k ohm	R574	032-0140-16	1/10W 180k ohm F
R417	119-4731-15	1/10W 47k ohm	R489	119-4731-15	1/10W 47k ohm	R575	116-2721-15	1/4W 2.7k ohm
R418	119-4711-15	1/10W 470 ohm	R490	119-6821-15	1/10W 6.8k ohm	R576	116-1531-15	1/4W 15k ohm
R419	119-4711-15	1/10W 470 ohm	R502	119-1031-15	1/10W 10k ohm	R577	119-0000-05	1/10W 0 ohm JW
R420	119-4711-15	1/10W 470 ohm	R503	119-1031-15	1/10W 10k ohm	R578	119-2221-15	1/10W 2.2k ohm
R421	119-4711-15	1/10W 470 ohm	R504	119-1031-15	1/10W 10k ohm	R580	116-1531-15	1/4W 15k ohm
R422		1/10W 100 ohm	R505		1/10W 10k ohm	R581	119-1031-15	1/10W 10k ohm
R423		1/10W 100 ohm	R507		1/10W 10k ohm	R582		1/10W 560 ohm
R424		1/10W 100 ohm	R508		1/10W 10k ohm	R583		1/4W 4.7 ohm
R425		1/10W 100 ohm	R509		1/10W 10k ohm	R584		1/4W 4.7 ohm
R426		1/10W 100 ohm	R510		1/10W 10k ohm	R585		1/10W 10k ohm
R427		1/10W 100 ohm	R511		1/10W 0 ohm JW	R586		1/10W 0 ohm JW
R428		1/10W 10k ohm	R512	1	1/10W 10k ohm	R587		1/10W 22k ohm
R429		1/10W 10k ohm	R513	1	1/10W 10k ohm	R588		1/10W 3.3k ohm
R430		1/10W 10k ohm	R514	1	1/10W 1M ohm	R590		1/10W 0 ohm JW
R431		1/10W 10k ohm	R515		1/10W 1M ohm	R591		1/10W 0 ohm JW
R432		1/10W 10k ohm	R517		1/10W 1M ohm	R592		1/10W 0 ohm JW
R433		1/10W 10k ohm	R518		1/10W 1M ohm	R593		1/10W 0 ohm JW
R436		1/10W 1k ohm	R519		1/10W 10k ohm	R594		1/10W 0 ohm JW
R437		1/10W 1k ohm	R520		1/10W 10k ohm	R595		1/10W 47k ohm
R440		1/10W 4.7k ohm	R521		1/10W 10k ohm	R596		1/10W 47k ohm
R441		1/10W 1k ohm	R522		1/10W 10k ohm	R597		1/10W 75k ohm
R442		1/10W 10k ohm	R523		1/10W 10k ohm	R598		1/10W 47k ohm
R443		1/10W 47k ohm	R524		1/10W 10k ohm	R943		1/10W 1k ohm
R445		1/10W 0 ohm JW	R525		1/10W 10k ohm	SUP102		DSP-141N-S00B
1		1/10W 47k ohm	R526		1/10W 10k 0hm	TH101		PTH8L05BAIR8M1B
R447		1/10W 10k ohm	R533		1/10W 10k ohm		002 0220 00	(PN-3000P)
1		1/10W 47k ohm	R534		1/10W 10k ohm	TH201	002-0229-00	PTH8L05BAIR8M1B
R449		1/10W 1k ohm	R535		1/10W 10k 0hm	T508	009-0670-81	
R450		1/10W 1k ohm	R540		1/4W 680 ohm	TM101	073-0762-90	
R451		1/10W 47k ohm	R542		1/10W 220k ohm F	TM102	073-0762-90	
R452		1/10W 47k ohm	R543		1/10W 75k ohm F	TM201	073-0762-90	
R453		1/10W 47k ohm	R548		1/10W 73K 01III1	TM501	073-0762-90	
R454		1/10W 47k ohm	R551		1/10W 220k 0hm	TM502	073-0762-90	
R455		1/10W 47 k ohm	R553		1/10W 10K 01IIII	X301	061-3537-90	
R456		1/10W 22k ohm	R554		1/10W 4.7K 0fm1	X401		CRYSTAL 10MHz
R458		1/10W 47 K Olilli 1/10W 100 ohm	R556		1/10W 4.7k ohm	PWB		PWB(WITHOUT
R459		1/10W 100 0hm	R557		1/10W 4.7k ohm	" " "	000-0120-00	COMPONENT)
R460		1/10W 100 01III	R563		1/4W 390 ohm			CONT CINCINI)
R461		1/10W 4.7k ohm	R564		1/4W 1.2k ohm			
11401	113-4121-13	1/ 1000 4./ K UIIIII	11304	110-1221-13	1/TVV 1.4N UIIIII			

PRINTED WIRING BOARD

Switch PWB(B1) section

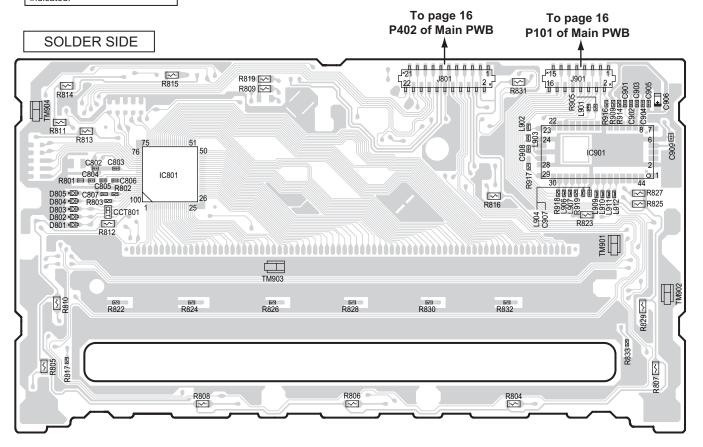


COMPONENT SIDE

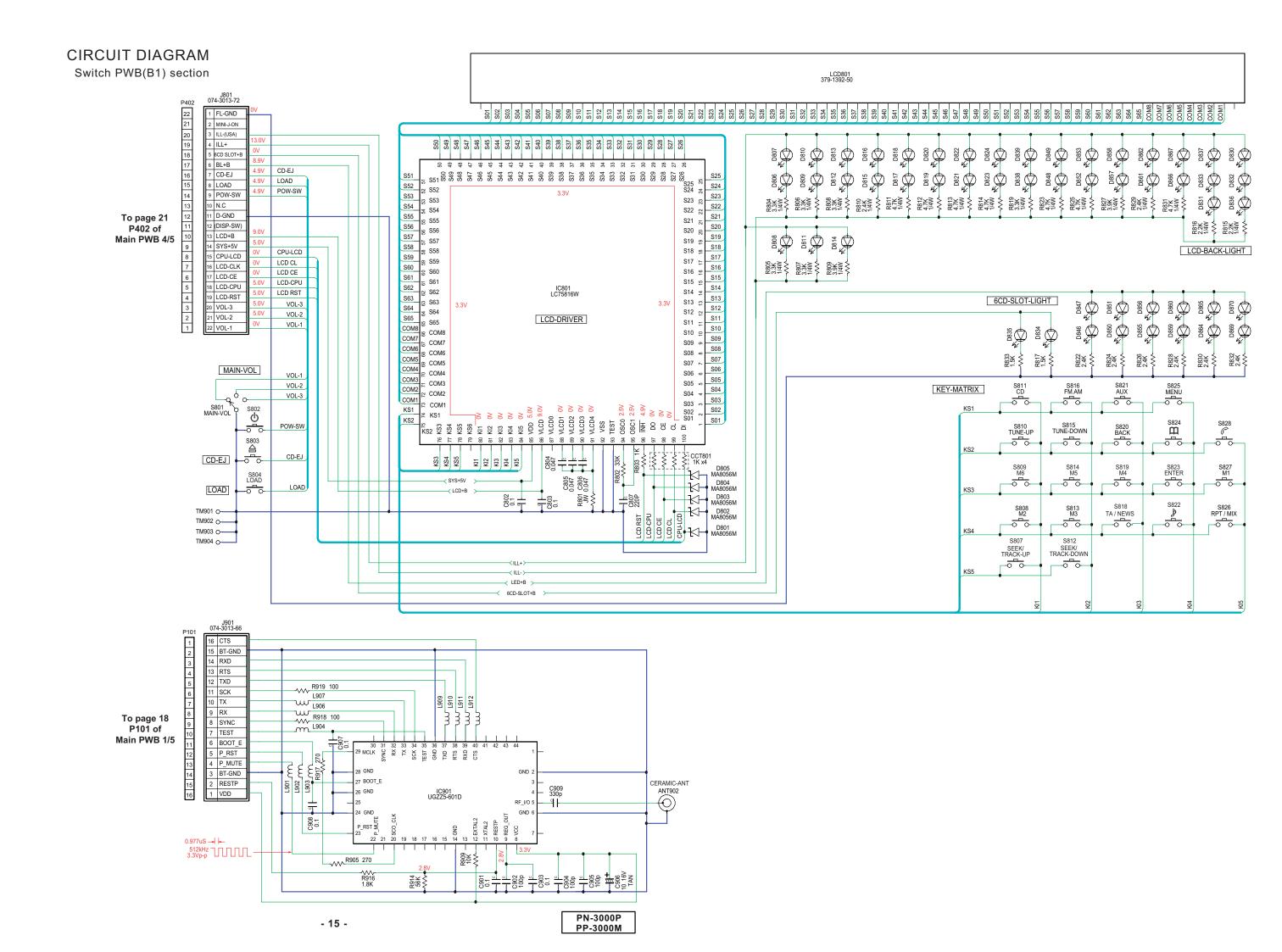
Caution:

COMPONENT SIDE: Parts on the component side seen from the component side are indicated.

SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

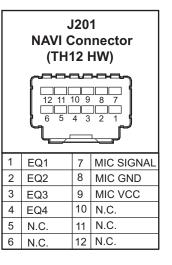


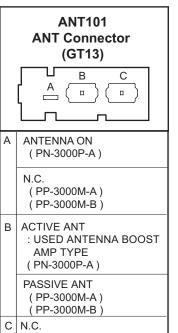
PN-3000P PP-3000M

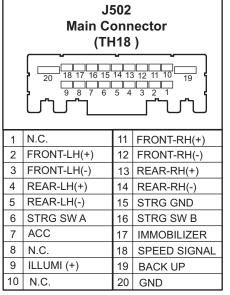


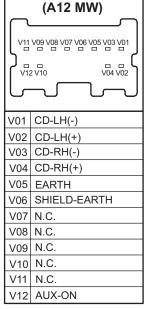
PRINTED WIRING BOARD

Main PWB(B2) section









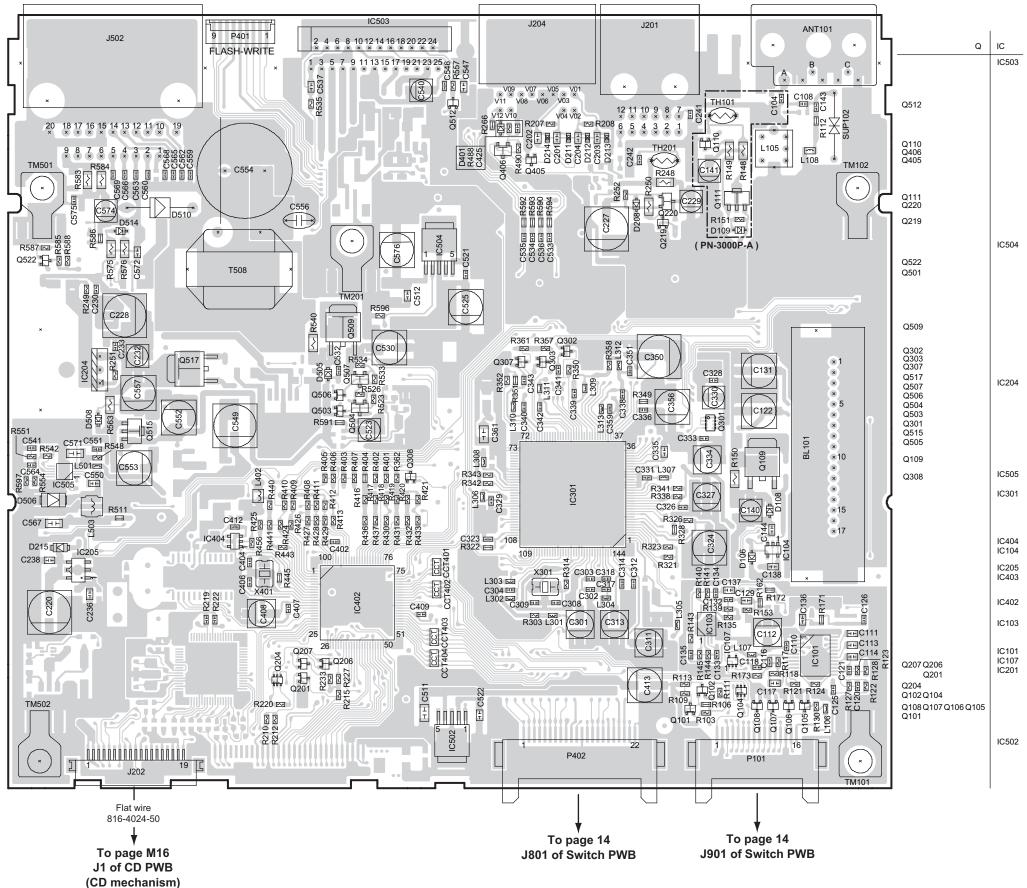
J204

NDS Connector

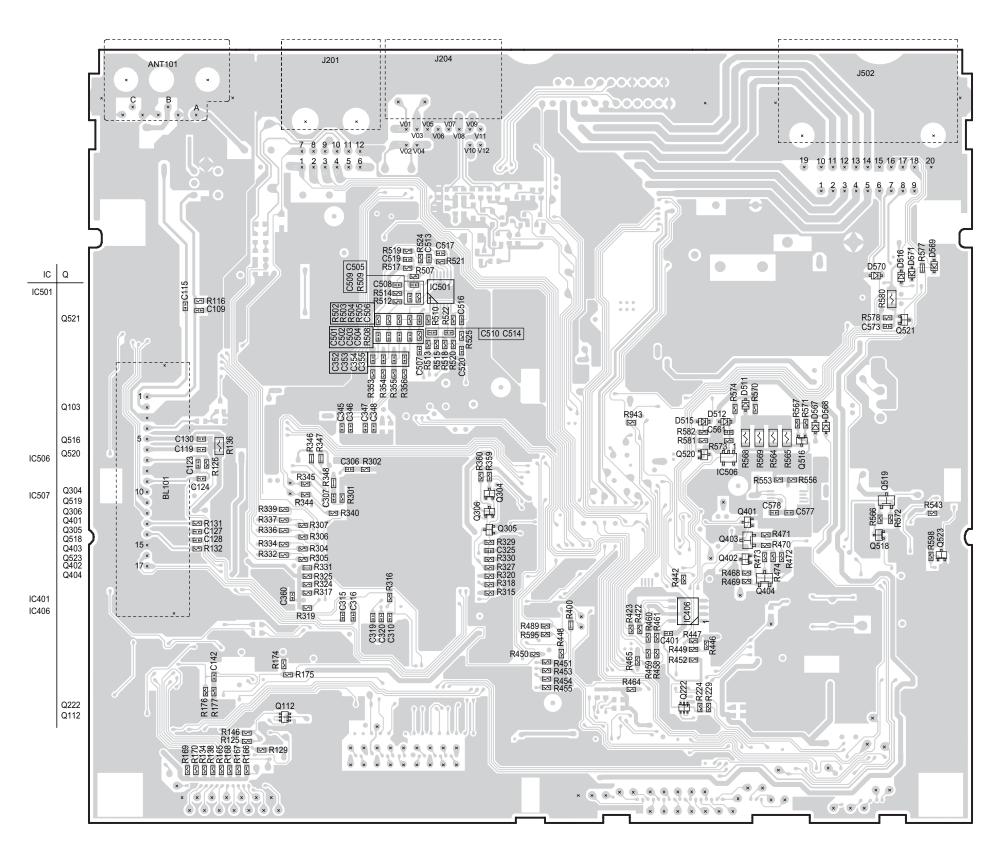
COMPONENT SIDE

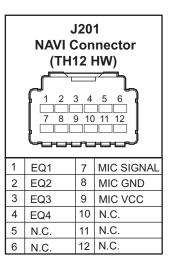
Caution:

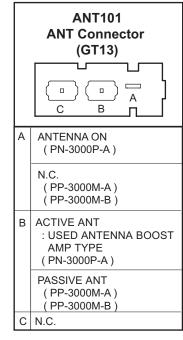
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.

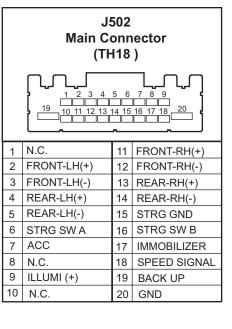


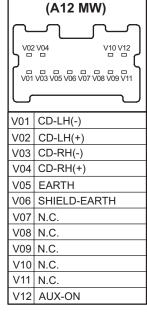
PN-3000P











J204

NDS Connector

SOLDER SIDE

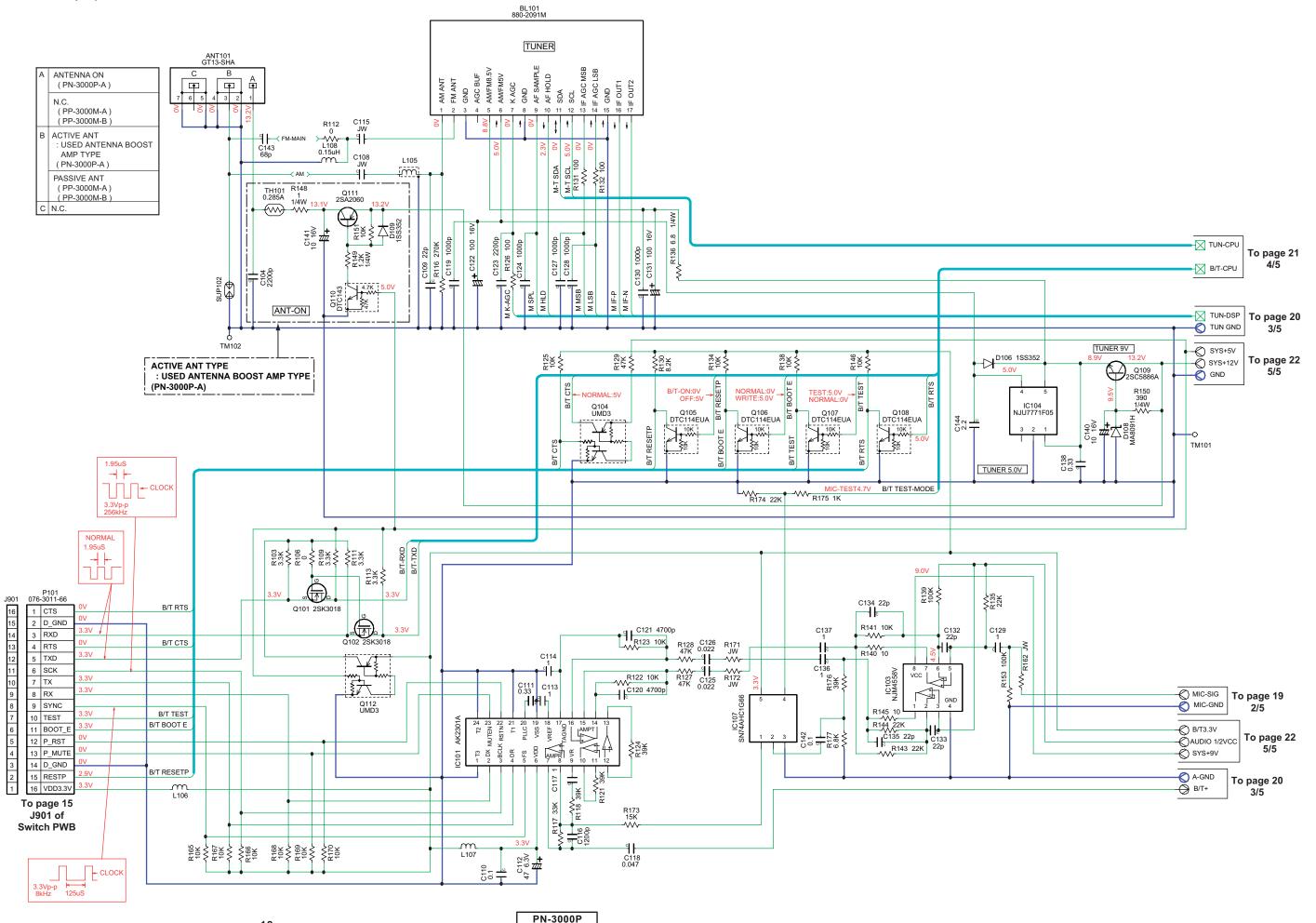
Caution:

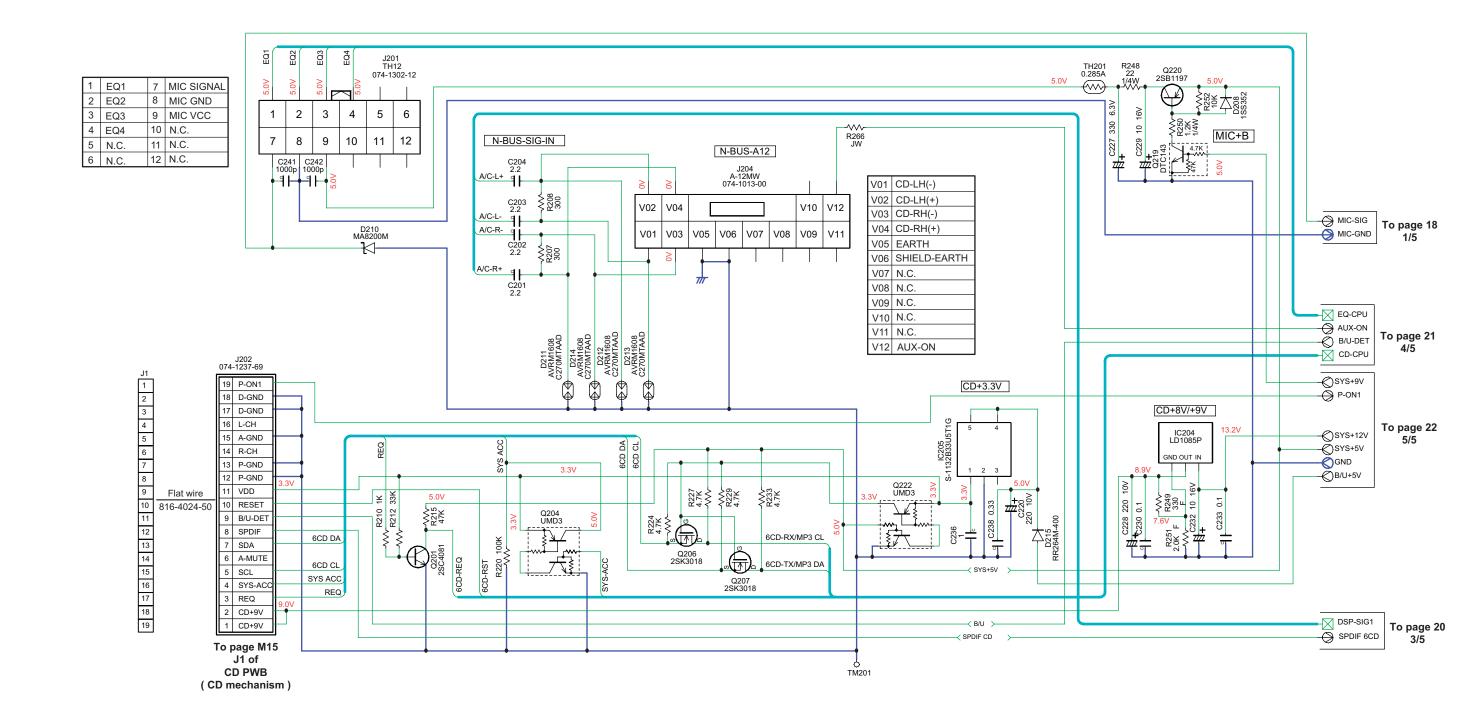
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

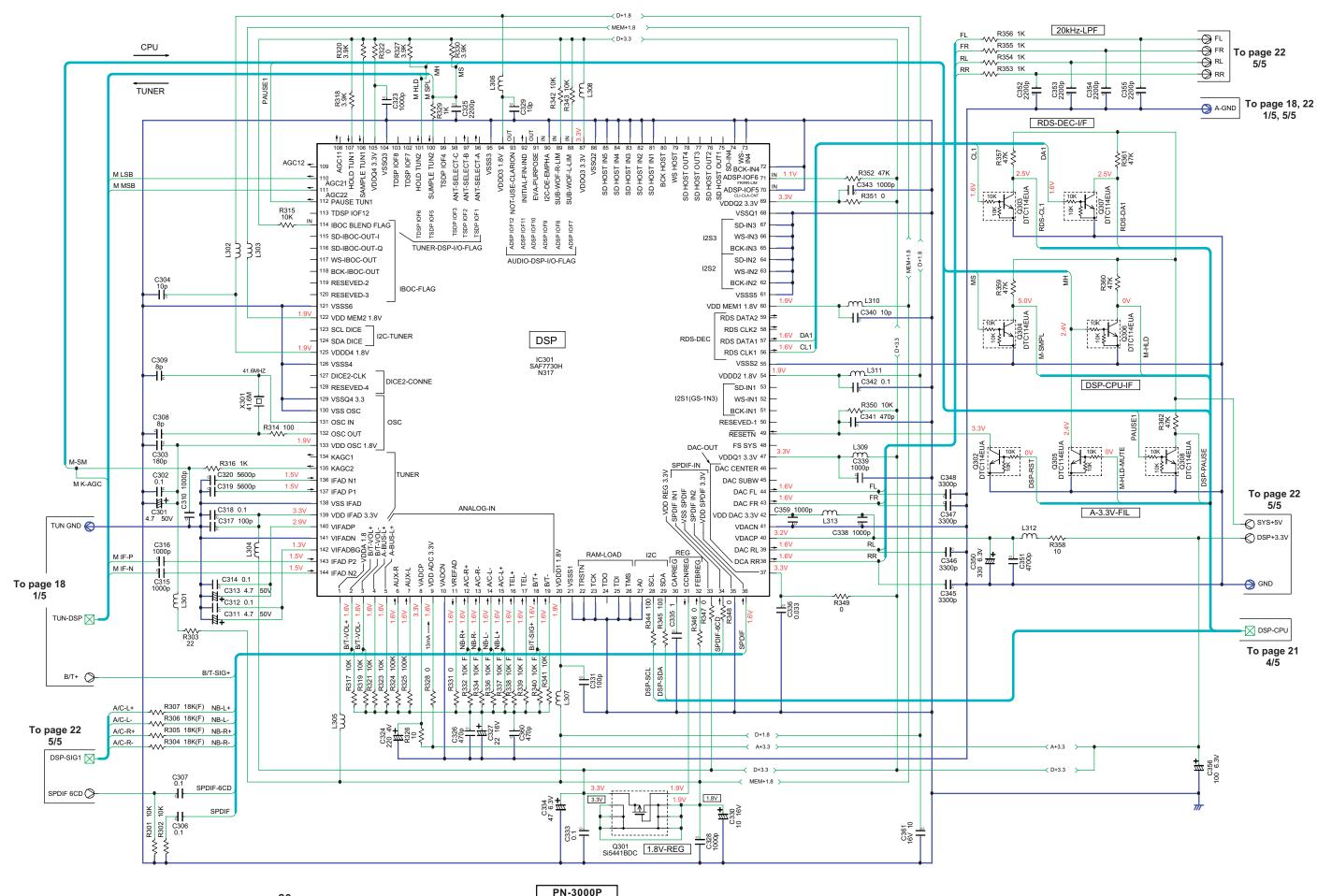
The parts of a dotted line express the parts on a component side.

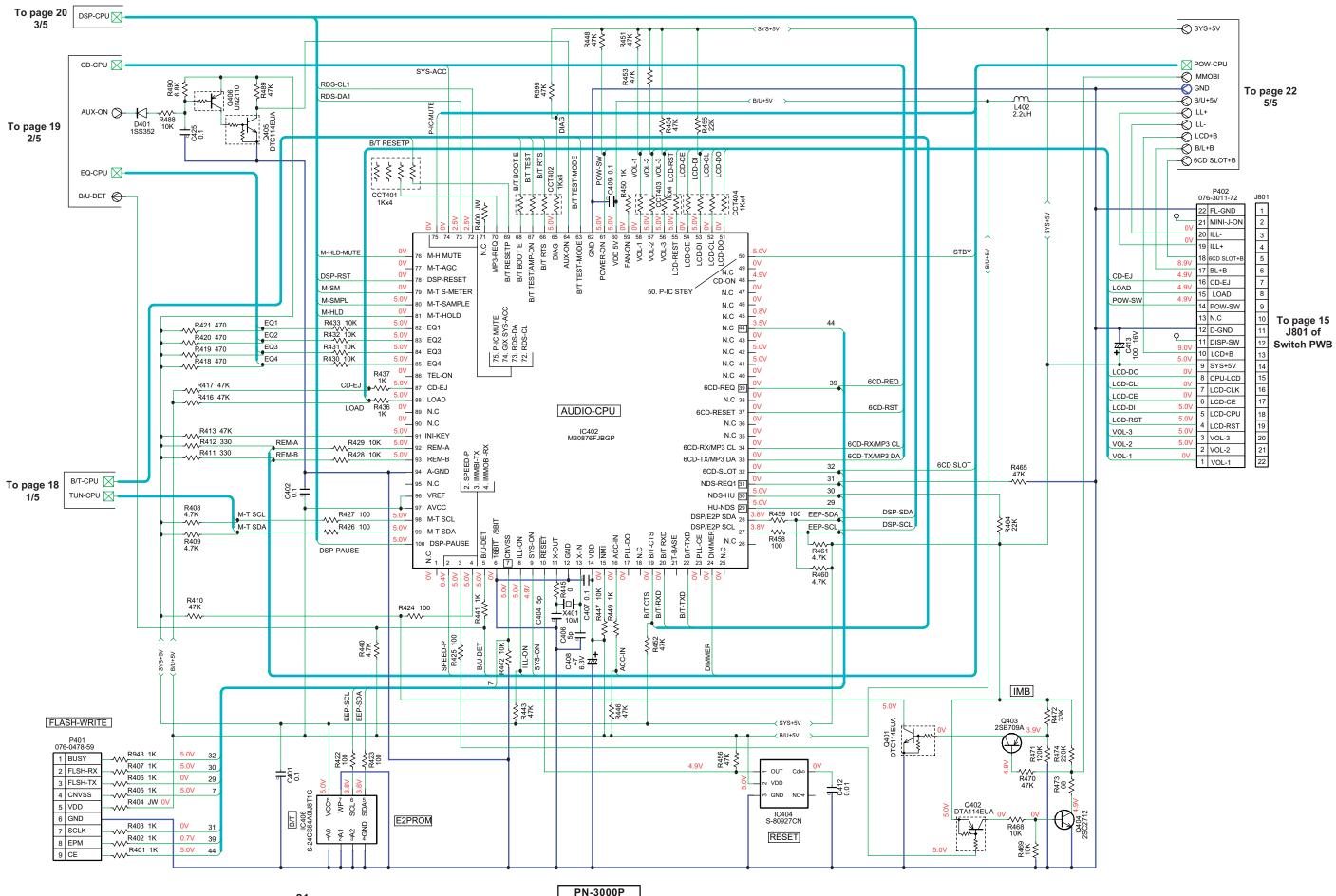
CIRCUIT DIAGRAM

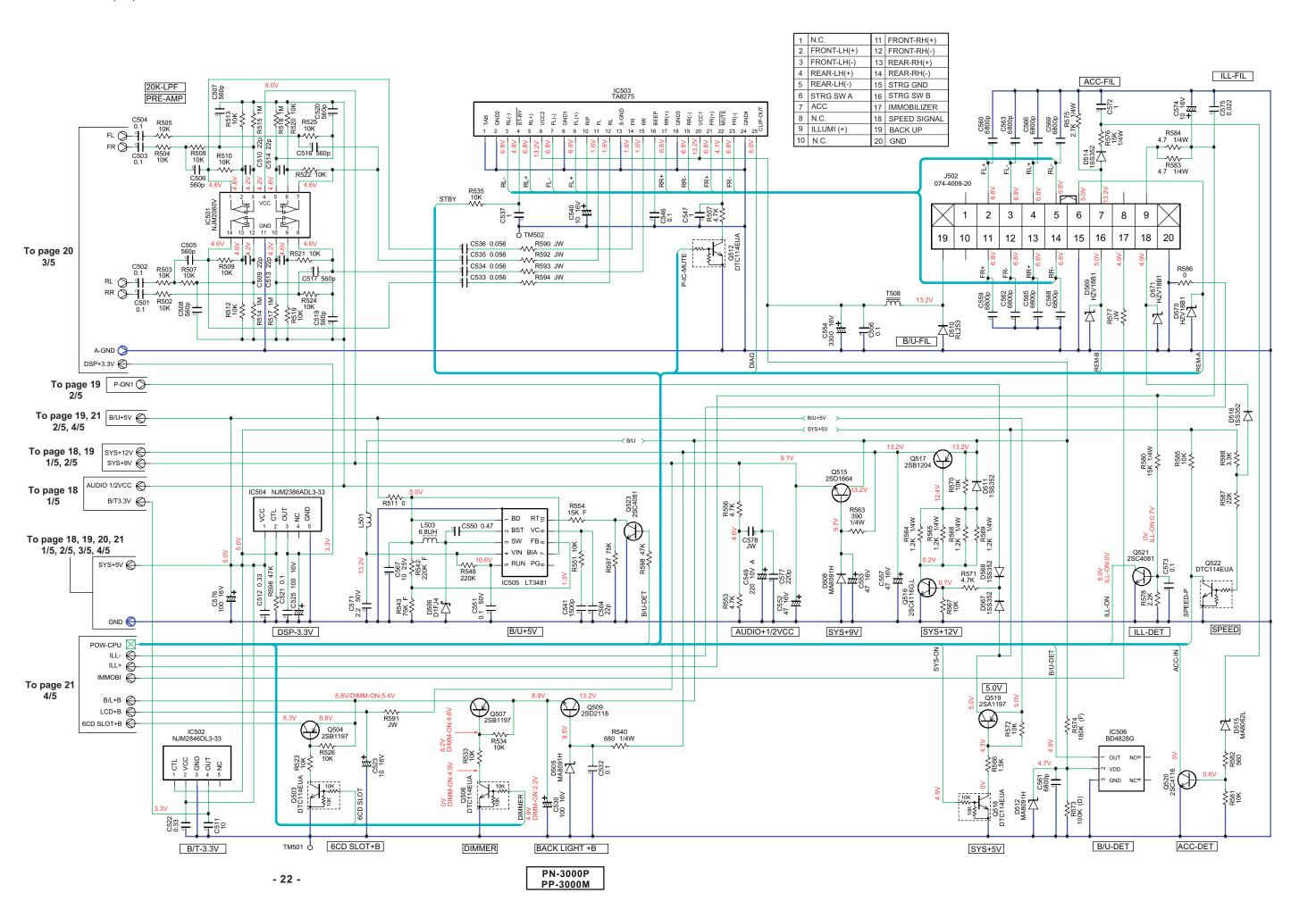
Main PWB(B2) section 1/5









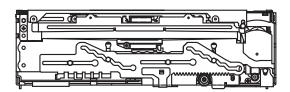




Clarion Co., Ltd.

7-2, Shintoshin, Chuo-ku, Saitama-shi, Saitama 330-0081 Japan Service Dept.: 7-2, Shintoshin, Chuo-ku, Saitama-shi, Saitama 330-0081 Japan Tel: +81-48-601-3705 FAX: +81-48-601-3804 Published by Service Dept. Nov.2007 Printed in Japan

Service Manual



In Dash 6disk CD Auto Changer Mechanism (GI-X)

Model 929-0390-81

EXPLANATION OF IC

051-6733-00 TC94A	.73MFG-201	CD IC (Decorder)
Terminal Description		
pin 1: A VSS	: - : Analog ground.	
pin 2: RF ZI	:IN: RF ripple zero cr	oss signal input.
pin 3: RF RP	: O : RF ripple signal of	
pin 4: SBAD/RFDC		on / RF Peak detection.
pin 5: F E	:IN: Focusing error sign	gnal input.
pin 6: T E	:IN: Tracking error sig	gnal input.
pin 7: TE Z IN	:IN: Tracking error ze	ro cross signal input.
pin 8: A VDD	: - : Positive voltage s tion.	upply for the analog sec-
pin 9: FOO	: O : Focus equalizer of	output.
pin 10: TRO	: O : Tracking equalize	er output.
pin 11: Vref	: - : Reference voltage	э.
pin 12: FMO	: O : Field equalizer or	utput.
pin 13: DMO	: O : Disk equalizer ou	tput.
pin 14: VSS	: - : Negative voltage	supply.
pin 15: VCO CNTRL	:IN:VCO control sign	al input.
pin 16: VDD	: - : Positive voltage s	supply.
pin 17: VDD	: - : Positive voltage s	supply.
pin 18: VSS	: - : Negative voltage	supply.
pin 19: FG IN	:IN: FG input for the	spindle CAV servo.
pin 20: IO 0 (HSo)	:I/O: Play speed mode	flag.
pin 21: IO 1 (UHSo)	:I/O: Play speed mode	flag.
pin 22: X VSS	: - : Clock ground.	
pin 23: X in	:IN: Crystal connection	n.
pin 24: X out	: O : Crystal connection	n.
pin 25: X VDD	: - : Clock power supp	oly.
pin 26: D VSS	: - : DAC ground.	
pin 27: RO	: O : Right channel au	dio signal output.
pin 28: D VDD	: - : Positive voltage s	supply for the DAC.
pin 29: DVR	: - : Reference voltage	e for the DAC.
pin 30: LO	: O : Left channel audi	o signal output.
pin 31: D VSS	: - : DAC ground.	
pin 32: VDD	: - : Positive voltage s	supply.
pin 33: VSS	: - : Negative voltage	supply.

pin	34: VDD	: - : Positive voltage supply.
pin	35: VDD	: - : Positive voltage supply.
pin	36: SRAM STB	:IN: SRAM standby.
pin	37: RESET	:IN: Reset signal input.
pin	38: BUS 0	:I/O: Parallel Data input/output.
pin	39: BUS 1	:I/O: Parallel Data input/output.
pin	40: BUS 2 / SO	:I/O: Parallel Data input/output. Serial data output.
pin	41: BUS 3 / SI	:I/O: Parallel Data input/output. Serial data input.
pin	42: BUCK / CK	:IN: Parallel Data Clock input. Serial clock input.
pin	43: CCEI	:IN: Chip enable input.
pin	44: TEST	:IN: For the test.
pin	45: IRQ	:IN: DSP interrupt.
pin	46: A out 3	: O : Audio data output.
pin	47: A out 2	: O : Audio data output.
pin	48: Pio 0	:I/O: General purpose input/output.
pin	49: Pio 1	:I/O: General purpose input/output.
pin	50: Pio 2	:I/O: General purpose input/output.
pin	51: Pio 3	:I/O: General purpose input/output.
pin	52: VSS	: - : Negative voltage supply.
pin	53: VDD	: - : Positive voltage supply.
pin	54: SB SY O	: O : Sub code block synchronous signal output.
pin	55: SB OK O	: O : Sub code Q data CRCC OK signal output.
pin	56: IPF out	: O : IP flag output.
pin	57: SF SY O	: O : Frame synchronous signal output.
pin	58: Z DET O	: O : DAC zero flag output.
pin	59: GPIN	:IN: General purpose input.
pin	60: M/S	:IN:I/F MODE selection.
pin	61: D out	: O : Digital audio interface output.
pin	62: A out 1	: O : L ch, analog output.
pin	63: B CK	: O : Bit clock output.
pin	64: LR CK	: O : LR clock output.
pin	65: AiN	:IN: DAC data input.
pin	66: B CK IN	:IN: DAC Bit clock input.
pin	67: LR CK IN	:IN: DAC Left/Right clock input.
pin	68: VDD	: - : Positive voltage supply.
	00 1/00	Alexander and the second second

: - : Negative voltage supply.

pin 69: VSS

pin 71:P VDD				
In 71: PVDD	pin 70: AWRC		•	:IN: Serial data input for the flash memory.
Page 12 Page 13 Page 14 Page	nin 71 P VDD	-	•	
PLOK	•		·	
pin 73: MAX 0.1 max judgment output. pin 27: VSS 1.1 Negative voltage supply. pin 74: MAX 0.1 max judgment output. pin 28: X in pin 11. Crystal cornection. pin 76: LPF out 10. Crystal cornection. pin 78: VCO FILTRE 0. Cloop filter for VCO. pin 32: NU 1. No for use. pin 31: NU 1. No fin use. pin 79: PLL VS PLL reference voltage. pin 31: NU No fin use. pin 33: NU 0. No fin use. pin 33: NU 0. No fin use. pin 33: NU 0. No fin use. pin 34: NU 0. No fin use. pin 35: SEB UET No fin use. pin 35: SEB UET No fin use. pin 36: SEB UET No fin use. pin 36: SEB UET No fin use. pin 37: SEBY No fin use. pin 37: SEBY No fin use. pin 37: SEBY No fin use. pin 38: Power ON 2 0. Power ON signal diput. pin 38: Power ON 2 0. Power ON signal diput. pin 38: Power ON 2 0. Power ON signal output. pin 38: Power ON 2 0. Power ON signal output. pin 38: NO fin use. pin 44: NU DCW 0. Power ON signal output. pin 44: NU DCW 0. Power ON signal output. pin 44: NU DCW 0. Power ON signal output. pin 44: NU DCW 0. Power ON signal output. pin 44: NU DCW 0. Power ON signal output. pin 44: NU DCW 0. Power ON signal output. pin 44: NU DCW 0. Power ON signal output. pin 44: NU DCW 0. Power ON signal output. pin 44: NU DCW 0. Power ON signal output. pin	piii 72.1 50		•	
10	pin 73: TMAX S	: O : T max judgment output.		,
pin 75; LPF N	pin 74: TMAX	: O : T max judgment output.		
pin 75: PVP out 0: Output for the Low Pass Filter, pin 30: RESET IN: Reset signal input. pin 75: PVL Not in use. pin 35: NU 0: Not in use. pin 35: NU DET IN: Reset signal input. pin 36: NU DET IN: Reset signal input. pin 35: NU DET IN: Nu IN: Nu DET IN: Nu I	pin 75: LPF N	:IN: Inverted input of LPF for PLL.	•	•
pin 73: VCC PLTER 0: Loop Bite for VCC pin 32: NU 1 - : Not in use	pin 76: LPF out	: O : Output for the Low Pass Filter.	·	
pin 78; PLL VSC FILTER 10: 10: 10:00 filter for VCO. pin 97; PLL VSC pin 90: SLCO 10: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0: 0	pin 77: P Vref	: - : PLL reference voltage.		
pin 90: PLL VSS	pin 78: VCO FILTER	: O : Loop filter for VCO.	·	
pin 85:RCD 10: Output of Internal DAC for data sileceleve of generation.	pin 79: PLL VSS	: - : PLL ground.	•	
pin 81: RF N	pin 80: SLCO	: O : Output of internal DAC for data slice lev-	•	
pin 82: RF RP			•	
pin 83: RF EQ out O. The output of the RF equalizer, pin 97: SBSY SIN Sub cade block synchronous signal dispin 98: Viver out O. Reference voltage output.	pin 81: RF IN	:IN: RF signal input.	•	
10 10 10 10 10 10 10 10	pin 82: RF RP	:IN:RF ripple input.	•	- '
pin 83; RYN2 or out O' Reference voltage output. pin 85; RESIN INI, Resistence roomation for the reference current. pin 85; RESIN INI, Resistence roomation for the reference current. pin 86; WANDR O - APC reference voltage. pin 87; TESTR O' The compensation terminal for RFEQO offset. pin 87; TESTR O' The compensation terminal for RFEQO offset. pin 88; AGCI INI, Input of the RF AGC amplifier. pin 88; AGCI INI, Input of the RF AGC amplifier. pin 89; RF out O' RF AGC amplifier. pin 90; RF VDD C - RF prover supply. pin 91; LDO O' The laser diode drive output. pin 91; LDO O' The laser diode drive output. pin 92; MNI INI, Monitor photo diode signal input. pin 93; RF VSS C - RF ground. pin 94; FNI 2 INI, Main beam input. pin 95; FNI 1 INI, Main beam input. pin 96; FNI 2 INI, Main beam input. pin 97; FPI 1 INI, Main beam input. pin 97; FPI 1 INI, Main beam input. pin 97; FPI 1 INI, Sub beam signal input. pin 99; TMPC O' TINT/TPI capacitor. pin 99; TMPC O' TINT/TPI capacitor. pin 99; TMPC O' TINT/TPI capacitor. pin 16; NU O' Load dinput / Output. pin 17; PIT 3 O' Load dinput / Output. pin 18; NU O' Load dinput / Output. pin 19; NOCO O' Deat input / Output. pin 19; NOCO O' Deat input / Output. pin 19; NOCO O' Deat input / Output. pin 19; NOCO O' Col Deat input / Output. pin 19; NOCO O' Col Deat input / Output. pin 19; NOCO O' Col Deat input / Output. pin 19; NOCO O' Col Deat input / Output. pin 19; NOCO O' Col Deat input / Output. pin 19; NOCO O' Col Deat input / Output. pin 19; NOCO O' Col Deat input / Output. pin 19; NOCO O' Col Deat input / Output. pin 19; NOCO O' Col Deat input / Output. pin 19; NOCO O' Col Deat input / Output. pin 19; NOCO O' Col Deat input / Output. pin 19; NOCO O' Col Deat input / Output. pin 19; NOCO O' Col Deat input /	pin 83: RF EQ out	: O : The output of the RF equalizer.	pin 37: SBSY	
pin 86: RESIN 1918 Resistor connection for the reference current pin 89: MADIR 20 : APC reference voltage. pin 40: MODE CCW 0 : Mode motor control.	pin 84: Vref out	: O : Reference voltage output.	nin 38: Power ON 2	·
pin 86: VMDIR C APC reference voltage pin 40: MODE CCW C C Mode motor control.	pin 85: RESIN		·	- · · · · · · · · · · · · · · · · · · ·
11 12 13 13 14 15 16 16 16 16 16 16 16	-i- 00. \/MD:D		·	
Diffect Diffett Diff	•	· ·	•	
pin 88: AGC IN: Input of the RF AGC amplifier. pin 43: ALE O : Address latch enable output.	pin 87: IESIK		•	
pin 89: RF out	pin 88: AGCI		·	
pin 90: RF VDD	•			·
pin 91:LDO	•		•	
pin 92:MDI :IN: Monitor photo diode signal input. pin 92: MDI :IN: Monitor photo diode signal input. pin 93: RF VSS : :: RF ground. pin 94: FNI 2 :IN: Main beam input. pin 95: FNI 1 :IN: Main beam input. pin 96: FPI 2 :IN: Main beam input. pin 96: FPI 2 :IN: Main beam input. pin 97: FPI 1 :IN: Main beam signal input. pin 98: TPI :IN: Sub beam signal input. pin 98: TPI :IN: Sub beam signal input. pin 99: TNPC :O: TNI/TPI capacitor. pin 100: TNI :IN: Sub beam signal input. pin 55: BUS 3 :I/O: CD IC Data input / output. pin 55: BUS 3 :I/O: CD IC Data input / output. pin 57: BUS 1 :I/O: CD IC Data input / output. pin 57: BUS 1 :I/O: CD IC Data input / output. pin 1: Vref L :: Reference voltage. pin 1: Vref L :: Reference voltage. pin 2: A VSS :: Analog ground. pin 4: LO CW :O: Loading motor control signal output. pin 4: LO CW :O: Loading motor control signal output. pin 4: LO CW :O: Loading motor control signal output. pin 5: LO CCW :O: Loading motor control signal output. pin 5: HO Null : -: Not in use. pin 6: A MUTE :O: Audio mute signal output. pin 7: PIT73 :O: Power ON signal output. pin 1: Null :: Not in use. pin 6: Null :: Not in use. pin 6: REP DI :IN: Serial data input from EEP-ROM. pin 1: Null :: Not in use. pin 6: SER FIGURE : -: Not in use. pin 1: Null :: Not in use. pin 6: REP DI :IN: Serial data input from EEP-ROM. pin 1: Null :: Not in use. pin 6: Null :: Not in use. pin 7: PIT Null :: Not in use. pin 10: Null :: Not in use. pin 11: Null :: Not in use. pin 12: Null :: Not in use. pin 13: Null :: Not in use. pin 14: Null :: Not in use. pin 15: Null :: Not in use. pin 16: Null :: Not in use. pin 1	•		•	
pin 93: RF VSS 1- : RF ground.	•		•	
pin 94:FNI 2 :IN: Main beam input. pin 49: Power ON 4 : O: Power ON signal output. pin 95:FNI 1 :IN: Main beam input. pin 50: LIMIT :IN: Inside limit switch signal input for the upin 96: FPI 2 pin 97:FPI 1 :IN: Main beam input. pin 51: Power ON 3 : O: Power ON signal output. pin 97:FPI 1 :IN: Sub beam signal input. pin 52: DSP REQ :IN: DSP request input. pin 99:TNPC : O: TNI/TPI capacitor. pin 53: CCE : O: Chip enable signal output. pin 99:TNPC : O: TNI/TPI capacitor. pin 55: BUS 3 :I/O: CD IC Data input / output. pin 56: BUS 2 : I/O: CD IC Data input / output. pin 55: BUS 3 :I/O: CD IC Data input / output. pin 56: BUS 2 : I/O: CD IC Data input / output. pin 57: BUS 1 :I/O: CD IC Data input / output. pin 57: BUS 1 : I/O: CD IC Data input / output. pin 58: BUS 0 :I/O: CD IC Data input / output. pin 1: Veri L : - : Reference voltage. pin 60: SRM STB :O: Reset pulse output to the CD IC. pin 2: A VSS : - : Reference voltage. pin 61: NU : : : Not in use. pin 3: A VCC : - : Posititive voltage supply for the internal analog section.	•	· · · · · · · · · · · · · · · · · · ·	•	
pin 95:FNI 1 :IN: Main beam input.	•	-		
pin 96: FPI 2	•	•	•	
pin 97: FPI 1 :IN: Main beam input. pin 51: Power ON 3 : O : Power ON signal output. pin 98: TPI :IN: Sub beam signal input. pin 52: DSP REQ :IN: DSP request input. pin 99: TNPC :O : TMI/TPI capacitor. pin 53: CCE :O : Chip enable signal output. pin 100: TNI :IN: Sub beam signal input. pin 55: BUS 3 :I//O: CD IC Data input / output. pin 55: BUS 3 :I//O: CD IC Data input / output. pin 55: BUS 3 :I//O: CD IC Data input / output. pin 55: BUS 3 :I//O: CD IC Data input / output. pin 57: BUS 1 :I//O: CD IC Data input / output. pin 57: BUS 1 :I//O: CD IC Data input / output. pin 58: BUS 0 :I//O: CD IC Data input / output. pin 58: BUS 0 :I//O: CD IC Data input / output. pin 59: CD RESET :O : Reset pulse output to the CD IC. pin 1: Yref L :::::Reference voltage. pin 60: SRM STB :O : SRAM standby. pin 3: A VCC ::::::Reference voltage supply for the internal analog section. pin 61: NU :::::Not in use. pin 3: A VCC :::::::::Reference voltage supply for the internal analog section. pin 63: NMI :IN: Nonmaskable interrupt. pin 4: LO CW ::::::::::::		•	piii 30. Liivii i	
pin 98: TPI	•	•	pin 51: Power ON 3	: O : Power ON signal output.
pin 99: TNPC pin100: TNI pin10	•	•	pin 52: DSP REQ	:IN: DSP request input.
pin100: TNI :IN: Sub beam signal input.	•		pin 53: CCE	: O : Chip enable signal output.
pin 55: BUS 3 pin 56: BUS 2 pin 57: BUS 1 pin 56: BUS 2 pin 57: BUS 1 pin 67: BUS 1 pin 57: BUS 1 pin 57: BUS 1 pin 57: BUS 2 pin 57: BUS 1 pi	•	·	pin 54: BUS CK	: O : Bus clock output or Tape MSGU control.
D52-5071-30 TMP91CY22IFG-6R96 Mechanism Controller TerminalDescription pin 1: Vref L	piirroo. Tru	Gab boain signal input.	pin 55: BUS 3	:I/O: CD IC Data input / output.
D52-5071-30 TMP91CY22IFG-6R96 Mechanism Controller TerminalDescription pin 1: Vref L			pin 56: BUS 2	:I/O: CD IC Data input / output.
Decirion The properties Decirion Dec			·	· ·
TerminalDescription pin 1: Vref L pin 1: Vref L pin 2: A VSS pin 3: A VCC pin 3: A VCC pin 4: LO CW pin 5: LO CCW pin 6: A MUTE pin 6: A MUTE pin 7: P1/T3 pin 7: P1/T3 pin 8: NU pin 9: Power ON 1 pin 9: Power ON 1 pin 10: NU pin 10	052-5071-30 TMP9	1CY22IFG-6R96 Mechanism Controller	pin 58: BUS 0	
pin 1: Vref L pin 2: A VSS pin 3: A VCC pin 4: LO CW pin 6: LO CCW pin 6: LO CCW pin 6: A MUTE pin 6: A NU pin 6: NO pin 6: EEP DI pin 6: EEP DO pin 6: EEP CK pin 10: NU pin 1	TorminalDescription		•	
pin 2: A VSS : - : Analog ground. pin 3: A VCC : - Positive voltage supply for the internal analog section. pin 3: A VCC : - Positive voltage supply for the internal analog section. pin 62: VSS : - : Negative voltage supply. pin 63: NMI : IN: Nonmaskable interrupt. pin 64: VCC : - : Positive voltage supply. pin 65: LO CCW : O : Loading motor control signal output. pin 65: HSSW1 : IN: L = It operates by one twice the special standard. pin 66: A MUTE : O : Audio mute signal output. pin 66: A MUTE : O : Audio mute signal output. pin 66: NU : - : Not in use. pin 67: EEP DI : IN: Serial data input from EEP-ROM. pin 9: Power ON 1 : O : Power ON signal output. pin 68: EEP DO : O : Serial data output to EEP-ROM. pin 10: NU : - : Not in use. pin 69: EEP CK : O : EEP-ROM clock pulse out. pin 11: NU : - : Not in use. pin 70: EEP CE : O : EEP-ROM chip enable signal out. pin 12: NU : - : Not in use. pin 13: NU : - : Not in use. pin 14: NU : - : Not in use. pin 15: NU : - : Not in use. pin 15: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use.		· - · Reference voltage	•	, ,
pin 3: A VCC : - : Positive voltage supply for the internal analog section. pin 62: VSS : - : Negative voltage supply. pin 63: NMI : IN: Nonmaskable interrupt. pin 64: VCC : - : Positive voltage supply. pin 64: VCC : - : Positive voltage supply. pin 65: HSSW1 : IN: L = It operates by one twice the speed a standard. pin 6: A MUTE : O : Audio mute signal output. pin 6: A MUTE : O : Power ON signal output. pin 6: NU : - : Not in use. pin 6: NU : - : Not in use. pin 6: NU : - : Not in use. pin 6: NU : - : Not in use. pin 6: EEP DI : IN: Serial data input from EEP-ROM. pin 10: NU : - : Not in use. pin 69: EEP CK : O : EEP-ROM clock pulse out. pin 11: NU : - : Not in use. pin 70: EEP CE : O : EEP-ROM chip enable signal out. pin 13: NU : - : Not in use. pin 72: NU : - : Not in use. pin 73: TDO : O : IEEE standard 1149.1 test data out of the selected register struction or data) are shifted out of the falling edge of TCK.	•	· ·	•	•
analog section. pin 63: NMI :IN: Nonmaskable interrupt. pin 4: LO CW :O: Loading motor control signal output. pin 5: LO CCW :O: Loading motor control signal output. pin 65: HSSW1 :IN: L = It operates by one twice the speed a standard. pin 65: HSSW1 :IN: L = It operates by one twice the speed a standard. pin 7: P1/T3 :O: Power ON signal output. pin 66: NU :-: Not in use. pin 67: EEP DI :IN: Serial data input from EEP-ROM. pin 9: Power ON 1 :O: Power ON signal output. pin 68: EEP DO :O: Serial data output to EEP-ROM. pin 10: NU :-: Not in use. pin 69: EEP CK :O: EEP-ROM clock pulse out. pin 11: NU :-: Not in use. pin 70: EEP CE :O: EEP-ROM chip enable signal out. pin 13: NU :-: Not in use. pin 71: NU :-: Not in use. pin 72: NU :-: Not in use. pin 73: TDO :O: IEEE standard 1149.1 test data output in the selected register struction or data) are shifted out of the falling edge of TCK.	•		·	
pin 4: LO CW : O: Loading motor control signal output. pin 5: LO CCW : O: Loading motor control signal output. pin 5: LO CCW : O: Loading motor control signal output. pin 6: A MUTE : O: Audio mute signal output. pin 7: P1/T3 : O: Power ON signal output. pin 8: NU : -: Not in use. pin 8: NU : -: Not in use. pin 9: Power ON 1 : O: Power ON signal output. pin 10: NU : -: Not in use. pin 69: EEP DO : O: Serial data output to EEP-ROM. pin 10: NU : -: Not in use. pin 69: EEP CK : O: EEP-ROM clock pulse out. pin 11: NU : -: Not in use. pin 70: EEP CE : O: EEP-ROM chip enable signal out. pin 12: NU : -: Not in use. pin 13: NU : -: Not in use. pin 14: NU : -: Not in use. pin 15: NU : -: Not in use. pin 16: NU : -: Not in u	piii 3.A VOO		•	
pin 5: LO CCW : O : Loading motor control signal output. pin 6: A MUTE : O : Audio mute signal output. pin 7: P1/T3 : O : Power ON signal output. pin 8: NU : - : Not in use. pin 69: EEP DI : IN: Serial data input from EEP-ROM. pin 9: Power ON 1 : O : Power ON signal output. pin 10: NU : - : Not in use. pin 69: EEP CK : O : EEP-ROM clock pulse out. pin 11: NU : - : Not in use. pin 70: EEP CE : O : EEP-ROM chip enable signal out. pin 13: NU : - : Not in use. pin 71: NU : - : Not in use. pin 14: NU : - : Not in use. pin 15: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 17: NU : - : Not in use. pin 16: NU : - : Not in use. pin 17: NU : - : Not in use. pin 18: NU : - : Not in use. pin 19: NU : - : NOt in use. pin 19: NU : - : NOt in use. pin 19: NU : - : NOt in use. pin 19: NU : - : NOt in use. pin 19: NU : -	pin 4: LO CW	: O : Loading motor control signal output.	•	·
pin 6: A MUTE : O : Audio mute signal output. pin 7: P1/T3 : O : Power ON signal output. pin 8: NU : - : Not in use. pin 8: NU : - : Not in use. pin 66: NU : - : Not in use. pin 67: EEP DI : IN: Serial data input from EEP-ROM. pin 9: Power ON 1 : O : Power ON signal output. pin 10: NU : - : Not in use. pin 69: EEP CK : O : EEP-ROM clock pulse out. pin 11: NU : - : Not in use. pin 70: EEP CE : O : EEP-ROM chip enable signal out. pin 12: NU : - : Not in use. pin 71: NU : - : Not in use. pin 13: NU : - : Not in use. pin 14: NU : - : Not in use. pin 15: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 17: NOT in use. pin 17: NOT in use. pin 18: NU : - : NOT in use. pin 19: NOT in	pin 5: LO CCW	: O : Loading motor control signal output.	•	
pin 7: P1/T3 : O : Power ON signal output. pin 8: NU : - : Not in use. pin 67: EEP DI : IN: Serial data input from EEP-ROM. pin 9: Power ON 1 : O : Power ON signal output. pin 10: NU : - : Not in use. pin 69: EEP CK : O : EEP-ROM clock pulse out. pin 11: NU : - : Not in use. pin 70: EEP CE : O : EEP-ROM chip enable signal out. pin 12: NU : - : Not in use. pin 71: NU : - : Not in use. pin 72: NU : - : Not in use. pin 13: NU : - : Not in use. pin 72: NU : - : Not in use. pin 14: NU : - : Not in use. pin 75: NU : - : Not in use. pin 15: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 73: TDO : IEEE standard 1149.1 test data ou The contents of the selected register struction or data) are shifted out of the on the falling edge of TCK.	•		p 0011100111	·
pin 8: NU : - : Not in use. pin 67: EEP DI : IN: Serial data input from EEP-ROM. pin 9: Power ON 1 : O : Power ON signal output. pin 10: NU : - : Not in use. pin 69: EEP CK : O : EEP-ROM clock pulse out. pin 11: NU : - : Not in use. pin 70: EEP CE : O : EEP-ROM chip enable signal out. pin 12: NU : - : Not in use. pin 71: NU : - : Not in use. pin 13: NU : - : Not in use. pin 72: NU : - : Not in use. pin 14: NU : - : Not in use. pin 15: NU : - : Not in use. pin 16: NU : - : Not in use. pin 17: NU : - : Not in use. pin 17: NU : - : Not in use. pin 17: NU : - : Not in use. pin 17: NU : - : Not in use. pin 17: NU : - : Not in use. pin 17: NU : - : Not in use. pin 17: NU : - : Not in use. pin 17: NU : - : Not in use. pin 17: NU : - : Not in use. pin 17: NU : - : Not in use. pin 18: NU : - : Not in use. pin 19: NU : - : Not in use. pin 19: NU : - : Not in use. pin 19: NU : - : Not in use. pin 19: NU : - : Not in use. pin 19: NU : - : Not in use. pin 19: NU : - : Not in use. pin 19: NU : - : Not in use. pin 19: NU : - : Not in use. pin 19: NU : - : Not in use. pin 19: NU : - : Not in use. pin 19: NU : - : Not in use. pin 19: NU : - : Not	•	- '	pin 66: NU	: - : Not in use.
pin 9: Power ON 1 : O : Power ON signal output. pin 10: NU : - : Not in use. pin 69: EEP CK : O : EEP-ROM clock pulse out. pin 11: NU : - : Not in use. pin 70: EEP CE : O : EEP-ROM chip enable signal out. pin 12: NU : - : Not in use. pin 71: NU : - : Not in use. pin 13: NU : - : Not in use. pin 14: NU : - : Not in use. pin 15: NU : - : Not in use. pin 15: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 68: EEP DO : O : Serial data output to EEP-ROM. pin 69: EEP CK : O : EEP-ROM clock pulse out. pin 70: EEP CE : O : EEP-ROM chip enable signal out. pin 71: NU : - : Not in use. pin 72: NU : - : Not in use. pin 73: TDO : IEEE standard 1149.1 test data out of the selected register struction or data) are shifted out of the struction or data) are shifted out of the struction or the falling edge of TCK.	•		pin 67: EEP DI	:IN: Serial data input from EEP-ROM.
pin 10: NU : - : Not in use. pin 10: NU : - : Not in use. pin 70: EEP CK : O : EEP-ROM clock pulse out. pin 11: NU : - : Not in use. pin 71: NU : - : Not in use. pin 13: NU : - : Not in use. pin 14: NU : - : Not in use. pin 15: NU : - : Not in use. pin 15: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 69: EEP CK : O : EEP-ROM clock pulse out. pin 70: EEP CE : O : EEP-ROM clock pulse out. pin 70: EEP CE : O : EEP-ROM clock pulse out. pin 70: EEP CE : O : EEP-ROM clock pulse out. pin 71: NU : - : Not in use. pin 72: NU : - : Not in use. pin 73: TDO : IEEE standard 1149.1 test data out of the selected register struction or data) are shifted out of the selected register struction or data) are shif	•		pin 68: EEP DO	·
pin 11: NU : - : Not in use. pin 70: EEP CE : O : EEP-ROM chip enable signal out. pin 12: NU : - : Not in use. pin 71: NU : - : Not in use. pin 13: NU : - : Not in use. pin 14: NU : - : Not in use. pin 15: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 70: EEP CE : O : EEP-ROM chip enable signal out. pin 71: NU : - : Not in use. pin 71: NU : - : Not in use. pin 72: NU : - : Not in use. pin 73: TDO : IEEE standard 1149.1 test data ou The contents of the selected register struction or data) are shifted out of on the falling edge of TCK.	•		pin 69: EEP CK	: O : EEP-ROM clock pulse out.
pin 12: NU : - : Not in use. pin 13: NU : - : Not in use. pin 13: NU : - : Not in use. pin 14: NU : - : Not in use. pin 15: NU : - : Not in use. pin 15: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 17: NU : - : Not in use. pin 71: NU : - : Not in use. pin 73: TDO The contents of the selected register struction or data) are shifted out of on the falling edge of TCK.	•		pin 70: EEP CE	•
pin 13: NU : - : Not in use. pin 14: NU : - : Not in use. pin 14: NU : - : Not in use. pin 15: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 72: NU : - : Not in use. pin 73: TDO : IEEE standard 1149.1 test data ou The contents of the selected register struction or data) are shifted out of the falling edge of TCK.	•		pin 71: NU	
pin 14: NU : - : Not in use. pin 15: NU : - : Not in use. pin 15: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. pin 73: TDO : O : IEEE standard 1149.1 test data ou The contents of the selected register struction or data) are shifted out of the selected register on the falling edge of TCK.	•		•	
pin 15: NU : - : Not in use. pin 16: NU : - : Not in use. pin 16: NU : - : Not in use. The contents of the selected register struction or data) are shifted out of on the falling edge of TCK.	•		•	: O:IEEE standard 1149.1 test data output.
pin 16: NU : - : Not in use. on the falling edge of TCK.	•			The contents of the selected register (in-
	•			struction or data) are shifted out of TDO
ріп ти. по inot in use. ріп ти. i CK : O : Ine test clock output.			nin 74. T CV	
nin 40 MIII	•		•	
pin 18: NU : - : Not in use. pin 75: T CLEAR : O : The test clear output.	pin 18: NU	: - : Not in use.	•	· ·

pin 76: MECHA SEL 2 :IN: The mechanism selection signal input.

pin 77: MECHA SEL 1 : IN: The mechanism selection signal input.

: IN: Flash memory control.

pin 78: FL BOOT

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 $:\mbox{O}:\mbox{Serial}$ data output for the flash memory.

: - : Not in use.

: - : Not in use.

pin 19: NU pin 20: NU

pin 21: FL TX

pin 79: TEST 1 :IN: For the test.
pin 80: TEST 2 :IN: For the test.
pin 81: TEST 3 :IN: For the test.
pin 82: TEST 4 :IN: For the test.

pin 83: I2C REQUEST : O: I2C request output.

pin 84: I2C SDA :I/O: I2C serial data input/output.
pin 85: I2C SCL :I/O: I2C serial clock input/output.
pin 86: ACC DET :IN: ACC detection signal input.

pin 87: NU : -: Not in use.

pin 88: SW 1 :IN: The switch signal input.
pin 89: VCC : - : Positive voltage supply.
pin 90: SW 2 :IN: The switch signal input.
pin 91: VSS : - : Negative voltage supply.
pin 92: SW 3 :IN: The switch signal input.
pin 93: SW 4 :IN: The switch signal input.

pin 94: NU : - : Not in use.

pin 95: PT 3 :IN: The photo sensor signal input.
pin 96: PT 2 :IN: The photo sensor signal input.
pin 97: PT 1 :IN: The photo sensor signal input.
pin 98: PT 5 :IN: The photo sensor signal input.
pin 99: PT 4 :IN: The photo sensor signal input.

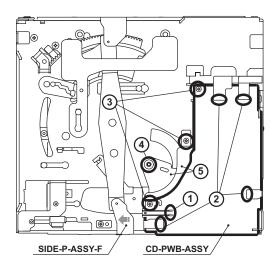
pin100: Vref H : - : Reference voltage.

- M3 - 929-0390-81

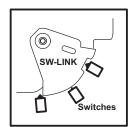
DISASSEMBLY

How to remove "CD-PWB-ASSY"

- 1. Add +5V to "U+" terminal of UD-MOTOR-ASSY,then SIDE-P-ASSY-F moves outside of CD-PWB.
- 2. Release four FPCs.
- 3. Remove three screws
- 4. Remove the washer.
- 5. Remove SW-H-PLATE and SW-LINK, and remove CD-PWB-ASSY.

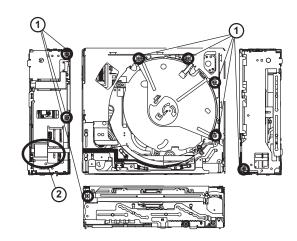


*When assembling, match SW LINK to three switches.

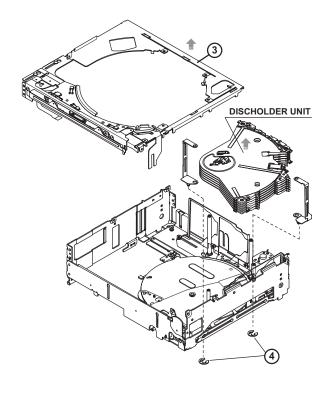


How to remove "DISCHOLDER UNIT"

- 1. Remove eight screws.
- 2. Remove the FPC.



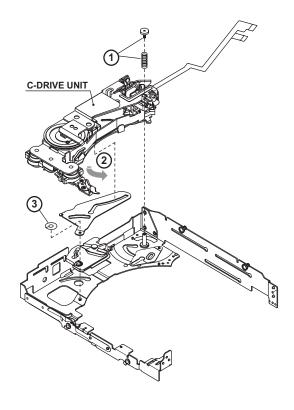
- 3. Remove UPPER UNIT ASSY.
- 4. Remove two C-RINGs, and remove DISCHOLDER UNIT.



929-0390-81 - M4 -

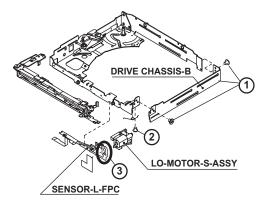
How to remove "C-DRIVE UNIT"

- 1. Remove the screw and DRIVE SPRING-A.
- 2. Rotate C-DRIVE UNIT internally.
- 3. Remove the washer, and remove C-DRIVE UNIT.



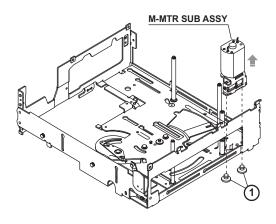
How to remove "LO-MOTOR-S-ASSY"

- 1. Remove two screws and DRIVE CHASSIS-B.
- 2. Remove the screw of the bottom side.
- 3. Remove the solder of SENSOR-L-FPC, and remove LO-MOTOR-S-ASSY.



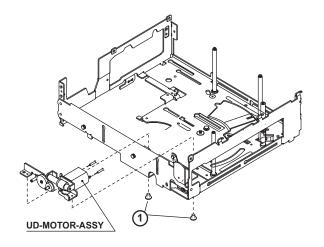
How to remove "M-MTR SUB ASSY"

 Remove two screws, and remove M-MTR SUB ASSY.



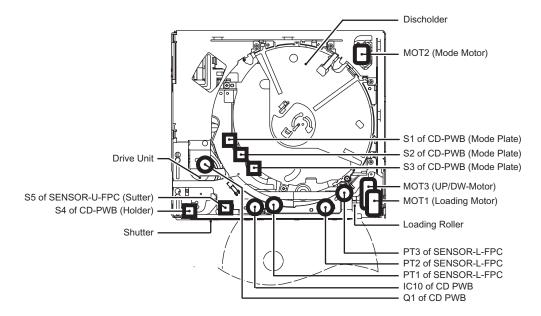
How to remove "UD-MOTOR-ASSY"

1. Remove the screw of the bottom side, and remove UD-MOTOR-ASSY.



- M5 -

OPERATION



Function of Mechanism

[DISC HOLDER]

Six holders.

(Related motor: UP/DW-Motor)

[DRIVE UNIT]

Chukking of a play disc.

(Related Motor:Mode motor)

[LOADING ROLLER]

Disk is stored/ejected by rotation.

(Related Motor:Laoding motor)

[SHUTTER]

Shutter at disc insertion.

(Related Motor:Mode Motor)

Function of Motors

[MOT1 LOADING MOTOR]

Rotation of loading roller.

(Related Sensor:PT1,2,3,Q1)

[MOT2 MODE MOTOR]

Rotation of mode plate.

Chukking disc.

Opening/closing holder.

Movement of loading/ejecting roller.

Opening/closing shutter.

(Related Sensor:S1,2,3)

[MOT3 UP/DW-MOTOR]

Going up and down of disc holder.

Selection of disc holder.

(Related Sensor:S4,IC10)

Function of Switches

[S1,2,3]

Detect a home position of mode plate.

Detect mode plate position by combination of on and off.

[S4]

Detection of initial position of holder.

Initial position:S4-ON,IC10-bright.

[S5]

Opening/closing detection of shutter.

OFF:Close, ON:Open

Function of Photo sensors

[PT1]

Detection of start loading and passing of disc.

Bright:no DISC, Dark:DISC

[PT2]

Detection of finish eject and passing of disc.

Bright:no DISC, Dark:DISC

[PT3]

Detection of store and passing of disc.

Bright:no DISC, Dark:DISC

[Q1]

Detection of passing of disc.

Bright:no DISC, Dark:DISC

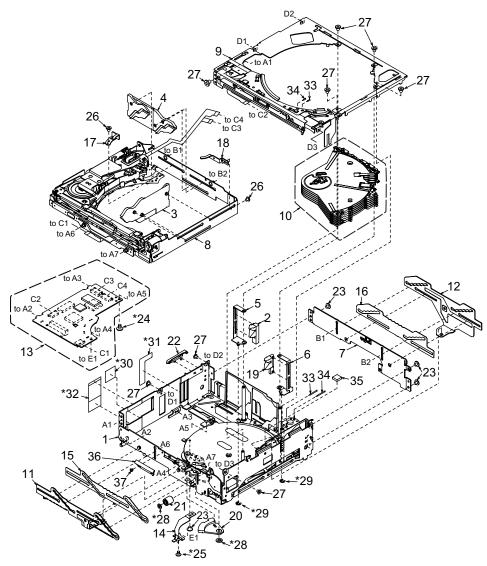
[IC10]

Detection of holder position

929-0390-81 - M6-

EXPLODED VIEW/PARTS LIST

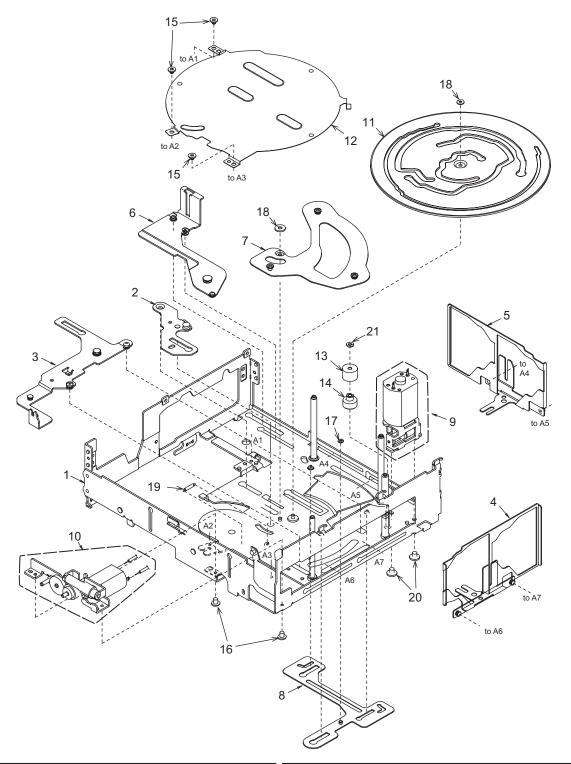
Main section



* Do not reuse the following parts. (No.24,25,28,29,30,31,32)

NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-585-200	LOWER UNIT ASSY	1
2	966-0667-21	DISC STP-ASSY L	1
3	HBS-584-100	DH-SEL-ASSY S	1
4	HBS-583-100	DH-SEL-ASSY R	1
5	966-0670-22	DS-SP-ASSY L	1
6	966-0671-23	DS-SP-ASSY R	1
7	966-0672-21	REAR-P-ASSY	1
8	966-1871-20	N-DRIVE-CH UNIT	1
9	966-1764-21	UPPRR UNIT ASSY	1
10	HBS-566-300	DISCHOLDER UNIT	1
11	966-1771-21	SLIDE-P-ASSY F	1
12	966-0709-21	SLIDE-P-ASSY R	1
13	HBS-605-100	CD-PWB-ASSY	1
14	620-1640-20	SW-H-PLATE	1
15	620-1778-20	GAP PLATE F	1
16	620-1662-21	GAP PLATE R	1
17	620-1685-21	DS-PLATE L	1
18	620-1686-20	DS-PLATE R	1
19	621-1634-23	DISC STOPPER R	1

Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	20	621-1636-24	SW LINK	1
1	21	621-1765-20	UD-GEAR-D	1
1	22	621-1715-20	FPC-STOPPER	1
1	23	716-1850-01	SCREW (M2.0x2.0)	4
1	24	716-3629-00	SCREW (M2.0x2.5)	1
1	25	716-1851-02	SCREW (M2.0x3.0)	1
1	26	716-3450-00	SCREW (M1.7x2.0)	2
1	27	716-3451-01	SCREW (M1.7x2.5)	8
1	28	746-0761-00	WASHER	2
1	29	744-0045-01	C-RING	2
1	30	347-7271-00	FPC SHEET	1
1	31	347-7275-00	PROTECT SHEET	1
1	32	347-7276-00	FPC-SHEET C	1
1	33	800-4921-60	VINYL-COAT WIRE	1
1	34	802-4921-60	VINYL-COAT WIRE	1
1	35	345-5824-00	RUBBER PART	1
1	36	621-1763-20	LOADING GUIDE B	1
1	37	716-1859-01	SCREW (M1.7x2.0)	1
1				



NO.	PART NO.	DESCRIPTION	Q'TY
1	966-1757-25	LOWER-C-ASSY	1
2	966-0658-22	DH-SP-ASSY A	1
3	966-1758-20	DS-SP-ASSY A	1
4	966-1808-20	DH-SP-ASSY S	1
5	966-1809-20	DH-SP-ASSY R	1
6	966-0677-23	D-SHT PL-B-ASSY	1
7	966-0659-22	DH-SP-ASSY B	1
8	966-0666-22	DS-SP-ASSY B	1
9	HBS-546-100	M-MTR SUB ASSY	1
10	HBS-568-100	UD-MOTOR-ASSY	1
11	620-1623-24	CAM GEAR	1

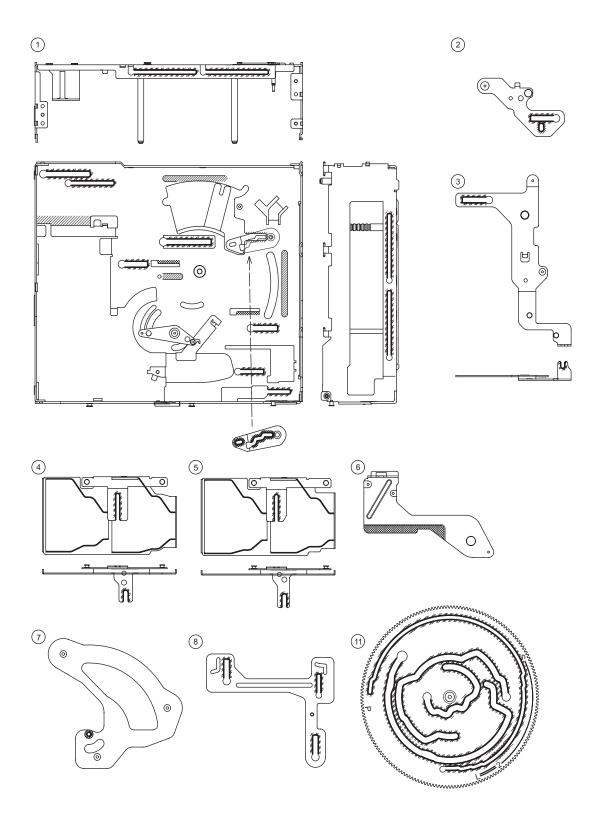
NO.	PART NO.	DESCRIPTION	Q'TY
12	620-1624-24	GEAR COVER	1
13	621-0732-21	M-GEAR B	1
14	621-0733-20	M-GEAR C	1
15	716-1850-01	SCREW(M2.0x2.0)	3
16	716-3451-01	SCREW(M1.7x2.5)	2
17	746-0761-00	WASHER	1
18	746-0768-00	WASHER	2
19	750-6756-20	SW-L-SPRING	1
20	716-1851-03	SCREW(M2.0x3.0)	2
21	746-0941-00	WASHER	1

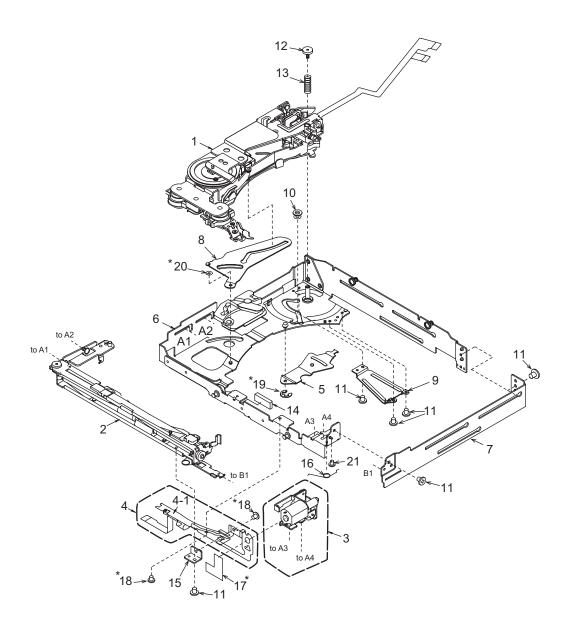
929-0390-81 - M8 -

[Grease Point]

* Grease : SANKOL FG-87HSR

Put grease on the surface	
Put grease on the reverse side	
Put grease on the both sides	(ANDONN)
Put grease on the edge	





* Do not reuse the following parts. (No.17,18,19,20)

NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-604-100	N-DRIVE UNIT	1
2	HBS-567-200	LOADING-U-ASSY	1
3	HBS-556-100	LO-MOTOR-S-ASSY	1
4	HBS-552-200	L-SENSOR-S-ASSY	1
4-1		SENSOR-L-FPC	1
5	966-0676-21	D-SHT LK-A-ASSY	1
6	966-1755-22	DRIVE-CH A ASSY	1
7	620-1681-21	DRIVE CHASSIS B	1
8	620-1672-21	DR-SUPPORT-PL	1
9	620-1680-20	D-SHIFT COVER	1
10	622-1743-21	D-SHIFT ROLLER B	1

NO.	PART NO.	DESCRIPTION	Q'TY
11	716-3450-00	SCREW(M1.7x2.0)	6
12	716-3459-01	SCREW(M1.7x2.0)	1
13	750-6761-20	DRIVE SPRING A	1
14	345-5868-01	RUBBER PART	1
15	620-1651-21	S-PWB-PLATE	1
16	750-6754-20	LO-ES-SPRING B	1
17	345-5424-01	SEN-FPC GUIDE	1
18	716-1859-01	SCREW(M1.7x2.0)	2
19	744-0039-00	E-RING	1
20	746-0870-00	WASHER	1

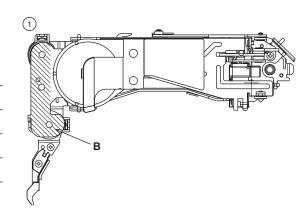
929-0390-81 -M10-

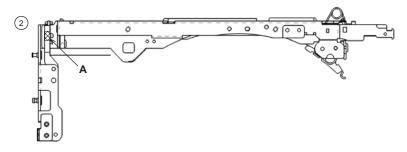
[Grease Point]

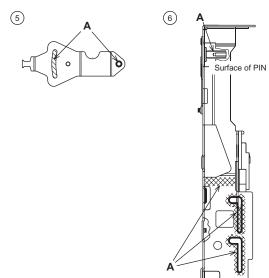
* Grease A: SANKOL FG-87HSR

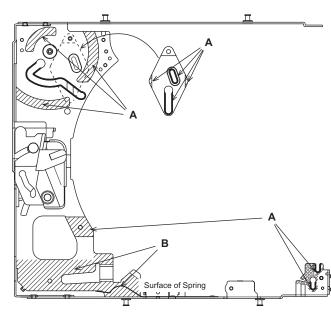
* Grease B : SANKO	L CFD-006MBL
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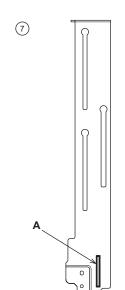
Put grease on the surface	Zamanan)
Put grease on the reverse side	C
Put grease on the both sides	(MARIAN)
Put grease on the edge	

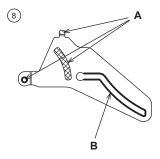


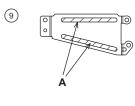






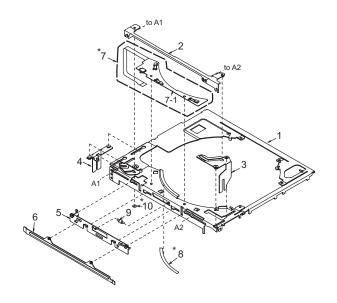








Upper unit assy section



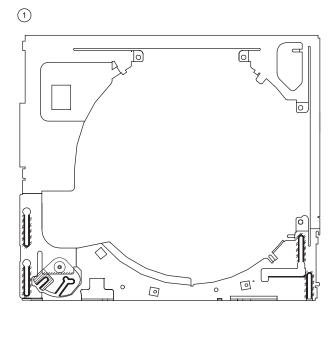
* Do not reuse the following parts. (No.7,8,10)

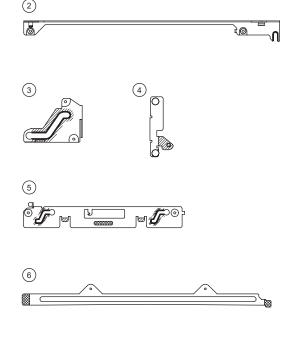
NO.	PART NO.	DESCRIPTION	Q'TY
1	966-1761-21	UPPER-CHA-ASSY	1
2	966-1765-20	LO-SHIFT A ASSY	1
3	966-0700-22	LO-SHIFT B ASSY	1
4	966-0701-21	LO-SHIFT ASSY	1
5	966-1766-20	SHUTTER-PL-ASSY	1
6	966-1763-20	SHUTTER ASSY	1
7	HBS-553-200	U-SENSOR-S-ASSY	1
7-1		SENSOR-U-FPC	1
8	347-7272-00	RATTLE SHEET	1
9	750-6755-21	SHUTTER SPRING	1
10	746-0870-00	WASHER	1

[Grease Point]

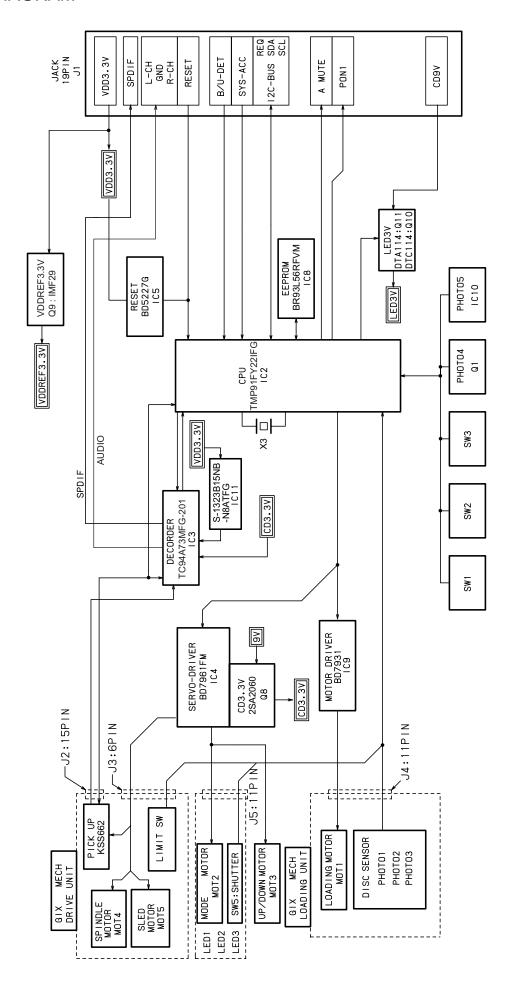
* Grease : SANKOL FG-87HSR

Put grease on the surface	
Put grease on the reverse side	
Put grease on the both sides	(NANANA)
Put grease on the edge	





929-0390-81 - M12-



ELECTRICAL PARTS LIST

CD PWB(BM1) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C1	168-1052-78	1uF	C75	168-1042-78	16V 0.1uF	R17	119-1041-15	1/10W 100k ohm
C3	168-1042-78	16V 0.1uF	C76	168-5622-55	5600pF K	R18	119-1041-15	1/10W 100k ohm
C4	043-0559-90	6.3V 22uF	C77	168-1032-55	0.01uF K	R19	119-1041-15	1/10W 100k ohm
C5	168-1032-55	0.01uF K	C79	166-1501-50	15pF CH	R20	119-1041-15	1/10W 100k ohm
C6	042-1702-90	6.3V 100uF	C80	166-1501-50	15pF CH	R21	119-2221-15	1/10W 2.2k ohm
C7	168-1052-78	1uF	C101	043-0563-90	16V 47uF	R22	119-4711-15	1/10W 470 ohm
C9	168-1052-78	1uF	CCT1	050-0145-59	1/16W 22 ohm x4	R23	119-1051-15	1/10W 1M ohm
C11	168-1052-78	1uF		050-0145-54	1/16W 47k ohm x4	R24	119-2211-15	1/10W 220 ohm
C12	042-0671-01			050-0145-54	1/16W 47k ohm x4	R25	119-2211-15	1/10W 220 ohm
C13	168-1052-78				1/16W 10k ohm x4	R26		1/10W 100k ohm
C14	168-1042-78				1/32W 2.2k ohmx4J	R27		1/10W 1M ohm
C15	168-1052-78			001-4301-14		R28		1/10W 100k ohm
C16	043-0559-90			001-0367-91		R29		1/10W 100k ohm
C17	168-1032-55			001-4301-16		R30		1/10W 47 ohm
C18	168-1052-78			001-4301-18		R31		1/10W 22 ohm
C19	043-0559-90			001-2612-90		R32		1/10W 1M ohm
C20	168-1042-78			001-2612-90		R33		1/10W 220 ohm
C21	168-1032-55		D7	001-9210-50	M1608C270MTAAD	R35		1/10W 1M ohm
C23 C24	043-0559-90 043-0559-90		D8	001-9210-50		R36 R37		1/10W 4.7k ohm 1/10W 47k ohm
C25	168-4732-78		الم	001-8210-30	M1608C270MTAAD	R38		1/10W 47K 0nm
C26	166-4711-50		IC2	052-5071-30	TMP91FY22IFG-	R39		1/10W 100k ohm
C28	168-4732-78		102	002-0011-00	6R96	R40		1/10W 4.7k ohm
C29	166-4711-50		IC3	051-6733-00	TC94A73MFG-201	R41		1/10W 47k ohm
C30	166-1007-50				BD7961FM-E2	R43		1/10W 47k ohm
C31	166-1007-50				BD5227G-TR	R44		1/10W 22 ohm
C32	168-1042-78	'			BR93L56RFVM-W	R45		1/10W 150 ohm
C33	168-2222-55			051-6072-08		R46		1/10W 4.7k ohm
C34	168-1042-78				GP1S093HCZ	R48		1/10W 100k ohm
C35	168-1042-78				S-1323B15NB-	R49		1/10W 0 ohm JW
C36	168-1042-78				N8ATFG	R50		1/10W 220 ohm
C37	168-6822-55	6800pF K	J1	074-1237-69	19PIN	R51	119-0000-05	1/10W 0 ohm JW
C39	168-1042-78		J2	074-1201-65	15P	R52	119-1041-15	1/10W 100k ohm
C40	168-3332-78	0.033uF K	J3	074-1138-56	6P	R53	119-5621-15	1/10W 5.6k ohm
C41	168-1042-78	16V 0.1uF	J4	074-1100-61	SOCKET 11P	R55	119-3341-15	1/10W 330k ohm
C42	168-1042-78				11P SOCKET	R56		1/10W 47k ohm
C43	168-1042-78			060-0252-01		R57		1/10W 22k ohm
C45	168-1042-78		Q2		DTA114EUA	R58		1/10W 0 ohm JW
C46	168-1042-78		Q3	198-3018-00		R59		1/10W 150 ohm
C48	168-1042-78		Q4	190-2060-00		R60		1/10W 47k ohm
C49	168-1042-78		Q8	190-2060-00		R61		1/10W 100k ohm
C50	168-1042-78		Q9	125-9026-90		R62		1/10W 100k ohm
C51	168-1042-78		Q10		DTC114EUA	R63		1/10W 100k ohm
C52	168-5622-55	'	Q11		DTA114EUA	R64		1/10W 100 ohm
C53 C54	168-1042-78 166-6801-50		Q12	125-2027-91	DTC114EUA	R65 R66		1/10W 100k ohm 1/8W 560 ohm
C54 C55	168-1532-55		Q13 R1		1/10W 680 ohm	R67		1/8W 750 onm
C56	168-1042-78				1/10W 680 ohm	R68		1/8W 750 ohm
C57	168-1032-55				1/2W 10 ohm	R69		1/10W 100k ohm
C58	168-1042-78				1/2W 10 01111 1/2W 10 0hm	R81		1/4W 1.5 ohm
C59	168-1042-78				1/10W 22k ohm	R211		1/10W 100k ohm
C60	168-1522-55				1/4W 10 ohm	R212		1/10W 100k ohm
C61	168-3322-55		R7		1/10W 1k ohm	S1		SW SPVL110200
C62	168-1032-55				1/4W 1.5 ohm	S2		SW SPVL110200
C64	168-1042-78				1/10W 22k ohm	S3		SW SPVL110200
C65	168-1032-55	0.01uF K			1/10W 470 ohm	S4		SPVG110400
C67	168-1032-55	0.01uF K	R11	119-2211-15	1/10W 220 ohm	X1	061-3534-90	16.92MHz
C69	168-1532-55	0.015uF K			1/10W 680 ohm	X3	060-1545-90	20MHz
C70	166-4701-50	47pF CH	R13	119-1011-15	1/10W 100 ohm	PWB	039-3083-21	PWB(WITHOUT
C71	168-1042-78				1/10W 22k ohm			COMPONENT)
C72	168-1042-78				1/10W 82k ohm			
C74	166-6097-50	6pF CH	R16	119-1041-15	1/10W 100k ohm			

Sensor-L-PFC(BM2) section

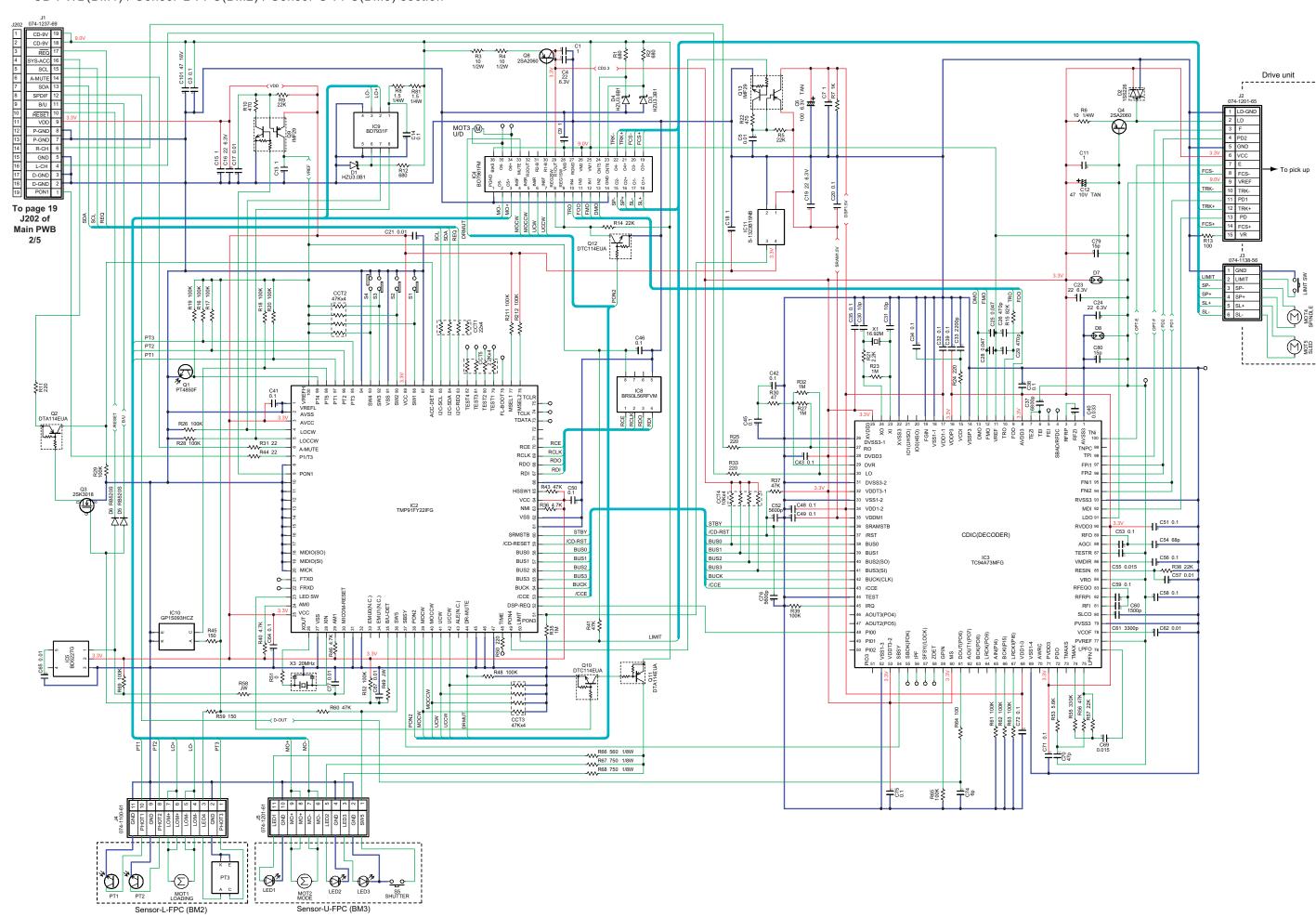
REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
PT1	060-0252-01	PT14850F	PT3	051-5833-00	GP1S093HCZ	PWB	039-2467-21	PWB(WITHOUT
PT2	060-0252-01	PT14850F						COMPONENTS)

Sensor-U-PFC(BM3) section

	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
	LED1	001-7077-00	GL4804	LED3	001-7077-00	GL4804	PWB	039-2466-20	PWB(WITHOUT
1	LED2	001-7077-00	GL4804	S5	013-7417-50	ABC1122P161			COMPONENTS)

CIRCUIT DIAGRAM

CD PWB(BM1) / Sensor-L-FPC(BM2) / Sensor-U-FPC(BM3) section



Sensor-L-FPC (BM2)

PRINTED WIRING BOARD

CD PWB(BM1) / Sensor-L-FPC(BM2) / Sensor-U-FPC(BM3) section

Caution:

COMPONENT SIDE:

Parts on the component side seen from the component side are indicated.

SOLDER SIDE: Parts on the solder side seen from the

solder side are indicated.

